SIEMENS

ICAF III User Handbook

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1. Introduction

1.1. Overview

This document explains how to use all the functions in *i*CAF, a web based access to the Management and Control System (MACS) used to manage the Dedicated Digital Network (DDN).

It provides a step by step guide with screen shots and examples of how to carry out each function.

2. Introduction to ICAF

2.1. ICAF Home Page

The ICAF home page consists of a menu and navigation bar which is displayed in all of the web pages.

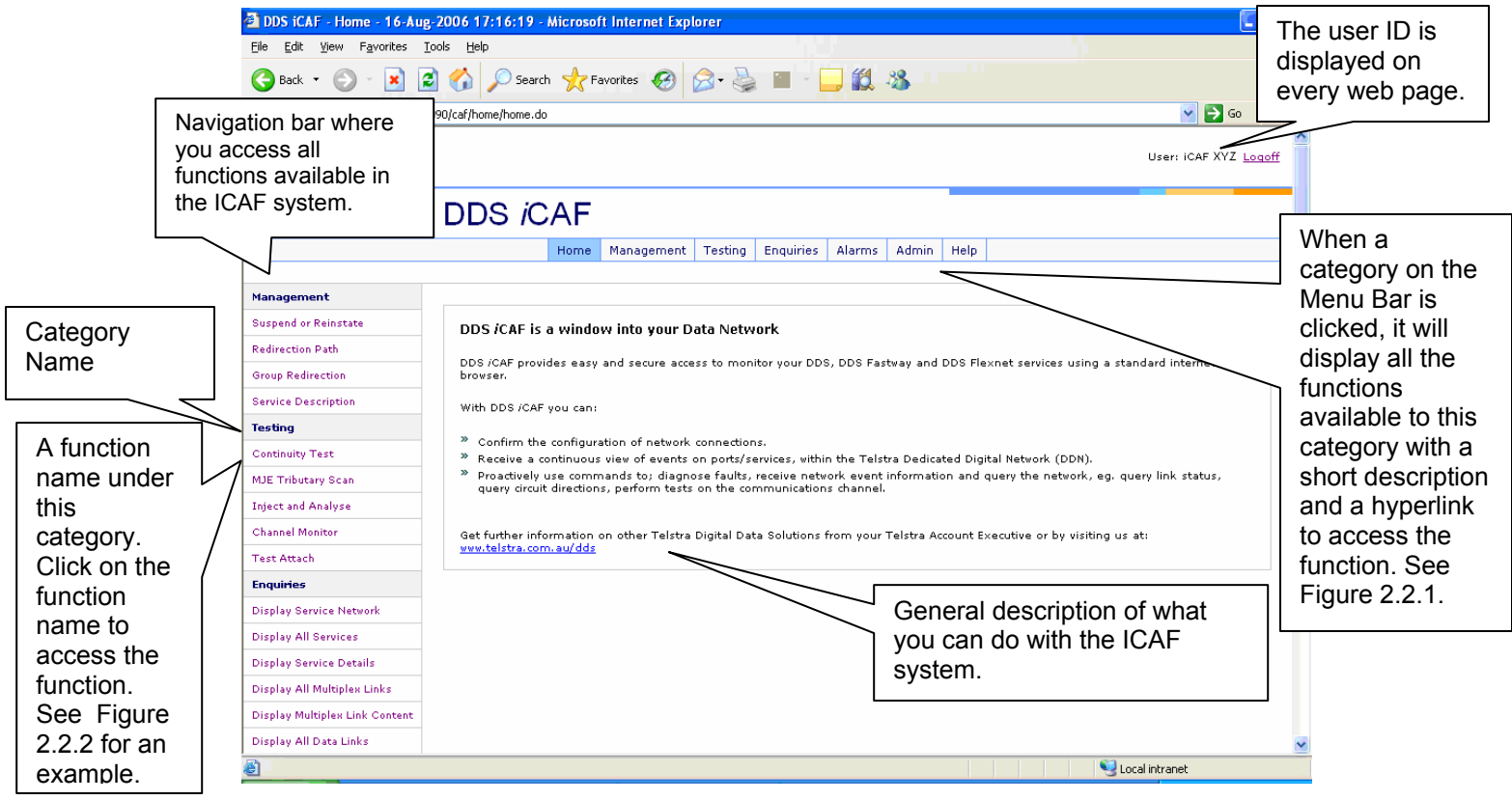

DDS iCAF - Home - 16-Aug-2006 17:16:19 - Microsoft Internet Explorer
The user ID is displayed on every web page.
Navigation bar where you access all functions available in the ICAF system.
User: iCAF XYZ Logoff
DDS iCAF
Home
Management
Testing
Enquiries
Alarms
Admin
Help
When a category on the Menu Bar is clicked, it will display all the functions available to this category with a short description and a hyperlink to access the function. See Figure 2.2.1.
Category Name
Management
Suspend or Reinstate
Redirection Path
Group Redirection
Service Description
Testing
Continuity Test
MJE Tributary Scan
Inject and Analyse
Channel Monitor
Test Attach
Enquiries
Display Service Network
Display All Services
Display Service Details
Display All Multiplex Links
Display Multiplex Link Content
Display All Data Links
DDS iCAF is a window into your Data Network
DDS iCAF provides easy and secure access to monitor your DDS, DDS Fastway and DDS Flexnet services using a standard internet browser.
With DDS iCAF you can:
Confirm the configuration of network connections.
Receive a continuous view of events on ports/services, within the Telstra Dedicated Digital Network (DDN).
Proactively use commands to; diagnose faults, receive network event information and query the network, eg. query link status, query circuit directions, perform tests on the communications channel.
Get further information on other Telstra Digital Data Solutions from your Telstra Account Executive or by visiting us at:
www.telstra.com.au/dds
General description of what you can do with the ICAF system.
A function name under this category. Click on the function name to access the function. See Figure 2.2.2 for an example.
Local intranet

Figure 2.1.1 – DDS iCAF home page displays general overview of the system's features.

2.2. Access to functions

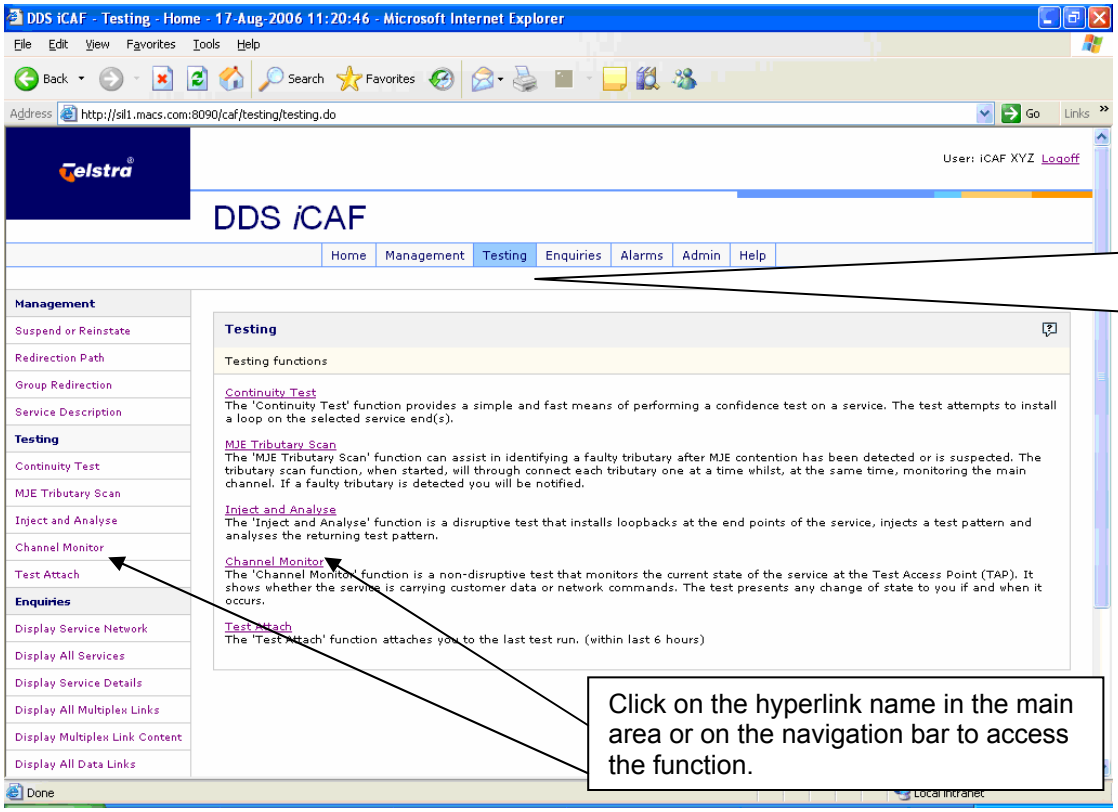

DDS iCAF - Testing - Home - 17-Aug-2006 11:20:46 - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://sil1.macs.com:8090/caf/testing/testing.do
Go Links
Telstra
User: iCAF XYZ Logoff
DDS iCAF
Home Management Testing Enquiries Alarms Admin Help
Management
Suspend or Reinstate
Redirection Path
Group Redirection
Service Description
Testing
Continuity Test
MJE Tributary Scan
Inject and Analyse
Channel Monitor
Test Attach
Enquiries
Display Service Network
Display All Services
Display Service Details
Display All Multiplex Links
Display Multiplex Link Content
Display All Data Links
Testing
Testing functions
Continuity Test
The 'Continuity Test' function provides a simple and fast means of performing a confidence test on a service. The test attempts to install a loop on the selected service end(s).
MJE Tributary Scan
The 'MJE Tributary Scan' function can assist in identifying a faulty tributary after MJE contention has been detected or is suspected. The tributary scan function, when started, will through connect each tributary one at a time whilst, at the same time, monitoring the main channel. If a faulty tributary is detected you will be notified.
Inject and Analyse
The 'Inject and Analyse' function is a disruptive test that installs loopbacks at the end points of the service, injects a test pattern and analyses the returning test pattern.
Channel Monitor
The 'Channel Monitor' function is a non-disruptive test that monitors the current state of the service at the Test Access Point (TAP). It shows whether the service is carrying customer data or network commands. The test presents any change of state to you if and when it occurs.
Test Attach
The 'Test Attach' function attaches you to the last test run. (within last 6 hours)
Done
Local intranet
All the functio
that belong to
category are
displayed in th
main area of t
window when
is clicked.
Click on the hyperlink name in the main area or on the navigation bar to access the function.

Figure 2.2.1 - A description of the selected category's functions are displayed when it is clicked from the menu bar.

When a function is clicked from the navigation bar, it accesses the function as shown in the next figure.

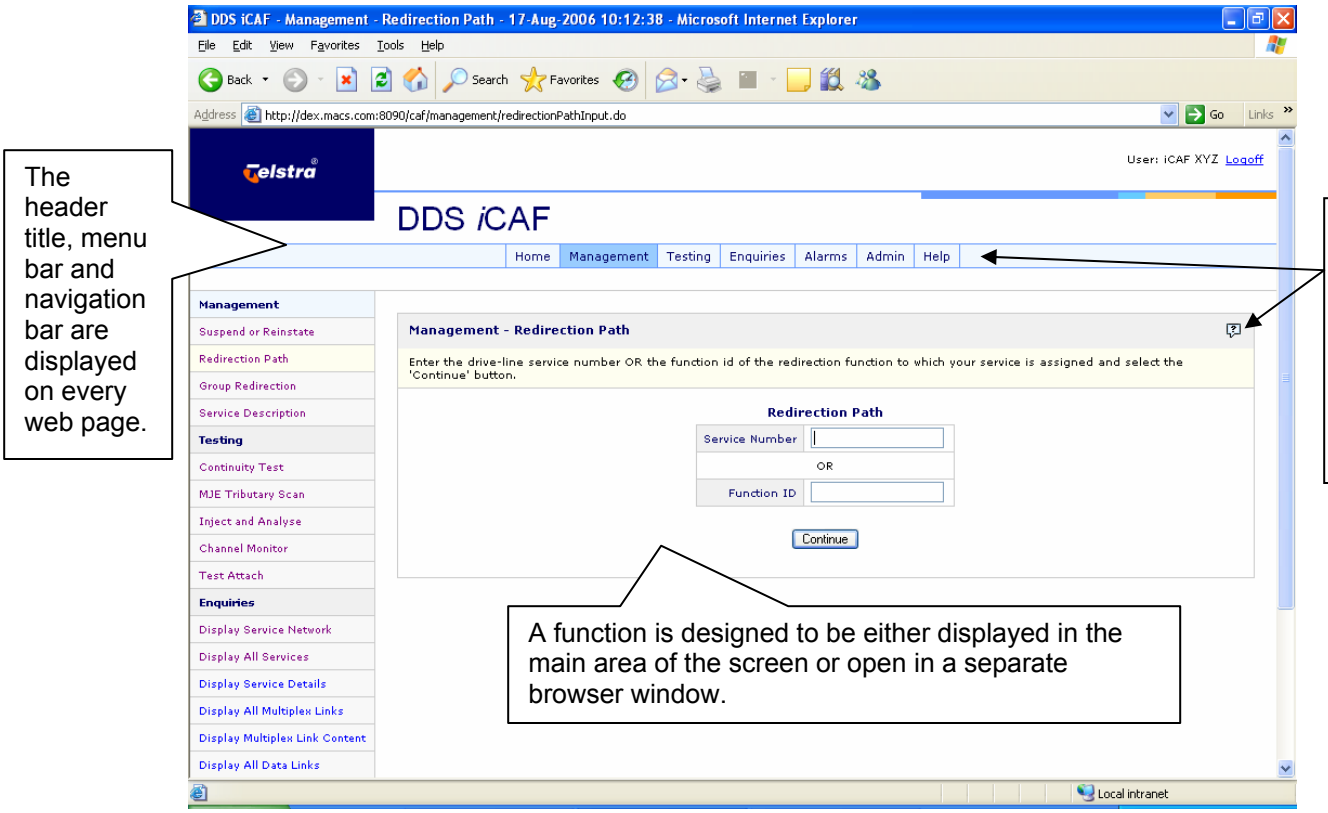

The header title, menu bar and navigation bar are displayed on every web page.
The online help can be accessed from the menu bar or wherever the help icon is displayed.
A function is designed to be either displayed in the main area of the screen or open in a separate browser window.
DDS iCAF - Management - Redirection Path - 17-Aug-2006 10:12:38 - Microsoft Internet Explorer
DDS iCAF
Home
Management
Testing
Enquiries
Alarms
Admin
Help
Management - Redirection Path
Redirection Path
Service Number
OR
Function ID
Continue

Figure 2.2.2 – The function is displayed in the main area of the screen.

A function can be accessed within other functions where a hyperlink appears.

Functions can be accessed within other functions for quick access and convenience. As displayed in the figure below, each component service in the service summary allows you to carry out other functions (actions), such as the suspend or reinstate function or the display network graph function.

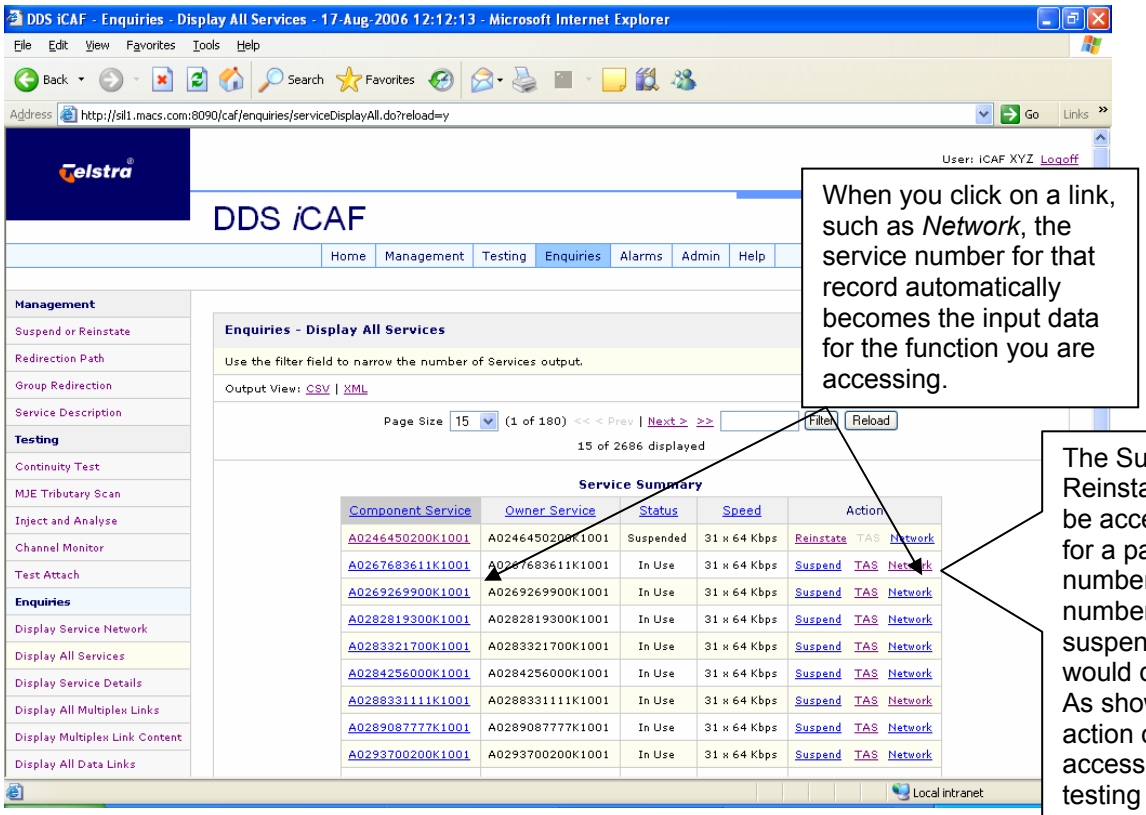

DDS iCAF - Enquiries - Display All Services - 17-Aug-2006 12:12:13 - Microsoft Internet Explorer
DDS iCAF
Home
Management
Testing
Enquiries
Alarms
Admin
Help
Enquiries - Display All Services
Service Summary
When you click on a link, such as Network, the service number for that record automatically becomes the input data for the function you are accessing.
The Suspend or Reinstate function can be accessed from here for a particular service number. If the service number was already suspended, the link would display Reinstate. As shown here, the TAS action cannot be accessed because testing cannot be conducted for services which are suspended.

Figure 2.2.3 – An example of links to other functions within a function.

3. Service Management

3.1. Overview

The functions described in this chapter allow you to suspend, reinstate & redirect your services.

Suspend or Reinstate

This function is provided to enable you to suspend or reinstate one of your services.

Redirection Path

From this function you are able to display or change the tributary setting of a redirection function to which your service is assigned.

Group Redirection

From this function you are able to create and maintain Facilities and Configurations which will then enable you to simultaneously switch many redirection functions.

Service Description

From this function you are able to display or modify a service description.

3.2. Suspend or Reinstate

Description

This function is provided to enable you to suspend or reinstate one of your services.

It is extremely important to note that the function removes cross-connections for the service specified (and not all services associated with it).

If a drive-line service number is specified then the cross-connections associated with it are removed and the complete service is inoperative. It can, however, be easily reinstated with this function if an error is made.

Usage

Enter the service number to be suspended or reinstated and click ‘Continue’.

Management - Suspend or Reinstate
Enter the service number to be suspended or reinstated and select the 'Continue' button.
Suspend or Reinstate
Service Number
Continue

Figure 3.2.1 - Suspend or Reinstate function requires input data.

The system responds by displaying relevant information as in Figure 3.2.2.

Management - Suspend or Reinstate
If the Service is currently 'In Use' and you require it to be suspended, select the 'Suspend' button. If the Service is currently 'Suspended' and you require it to be reinstated, select the 'Reinstate' button. The system will respond by displaying the updated state/details of the service within the 'Display Service Details' screen.
Service Details
Service Number
N300002190N
Service Description
N300002190N INUSE 2400 X21B X21B
Service Status
Suspended
Reinstate
Cancel
Clicking on this web page link will show you the Enquiries – Display Service Details function before any status changes have been made.

Figure 3.2.2 - Suspend or Reinstate Service Details

If the service has a status other than INUSE or SUSPENDED, an error message will be displayed such as, “Service 'N300016248N' does not exist”.

Check the information displayed to ensure that this is the service you want to suspend or reinstate. If you entered an incorrect service number, click on the *Cancel* button to start again.

If the service is currently INUSE and you want to suspend it, click on the *Suspend* button.

If the service is currently SUSPENDED and you want to reinstate it, click on the *Reinstate* button.

When the Reinstate or Suspend button are clicked, the system responds by displaying the updated state of the service as in Figure 3.2.3 .

Figure 3.2.3 Enquiries – Display Service Details function with updated changes.

More details about the service can be viewed by clicking on any of the underlined links, such as the service description.

Click on the *Suspend or Reinstate* menu link in the navigation bar on the left side of the screen to suspend or reinstate another service.

Figure 3.2.4 – Some links that belong to the Navigation Bar located on the left side of the iCAF system.

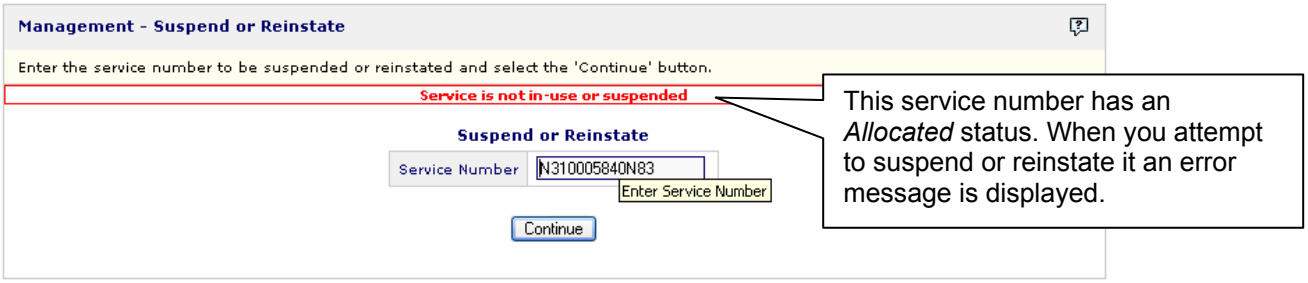

Management - Suspend or Reinstate
Enter the service number to be suspended or reinstated and select the 'Continue' button.
Service is not in-use or suspended
Suspend or Reinstate
Service Number
N310005840N83
Enter Service Number
Continue
This service number has an *Allocated* status. When you attempt to suspend or reinstate it an error message is displayed.

Figure 3.2.5 – An error message displays if a service number cannot be suspended or re-instated.

Field Descriptions

Input fields

Service Number

The service to be suspended or reinstated.

Output fields

Service Number

The service to be suspended or reinstated. If you attempt to suspend a service which is a tributary and it belongs to a Facility, an error message is displayed, such as, “Failed to change service status for ‘N31000260N83’

Service Description

A description of the service which was previously entered by the user. This field is optional and can be modified using the Enquiries – Display Service Details or Management – Service Description function. If the description field is empty, a web link “Add Description” is displayed in this field instead.

Service Status

The current status of the service is displayed (either INUSE or SUSPENDED).

3.3. Redirection Path

3.3.1. Overview

This function is the central starting point for all redirection path functionality from which you will be able to perform the following:

Change a Redirection Path

Display a Redirection Path

3.3.2. Display Redirection Path

Description

This function enables you to see which tributary of a redirection function is active.

Usage

Invoke the 'Redirection Path' function located in the navigation bar.

Enter the drive-line service number or the ID of the redirection function to which your service is assigned.

Click on the *Continue* button.

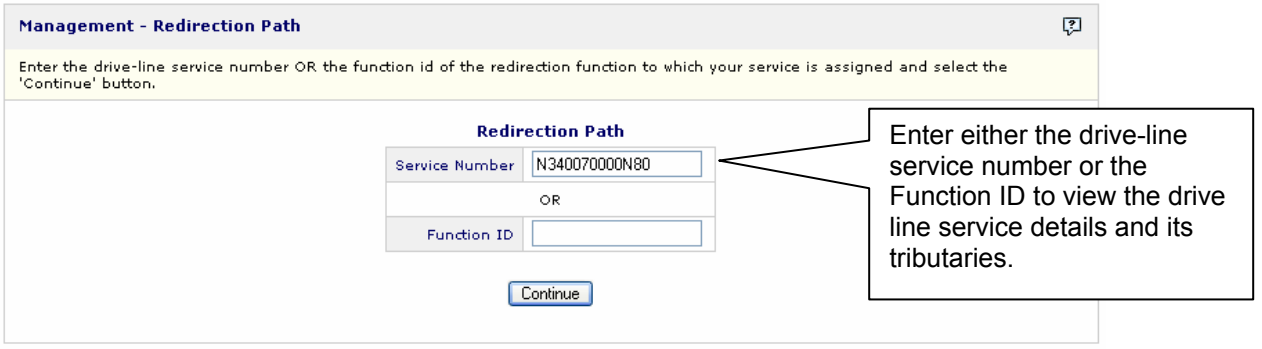

Management - Redirection Path
Enter the drive-line service number OR the function id of the redirection function to which your service is assigned and select the 'Continue' button.
Redirection Path
Service Number
N340070000N80
OR
Function ID
Continue
Enter either the drive-line service number or the Function ID to view the drive line service details and its tributaries.

Figure 3.3.1 – Redirection Path requires specific data input.

The system responds by displaying the drive-line and tributary service details of the redirection function. If the function is currently switched, the active tributary service record will be highlighted.

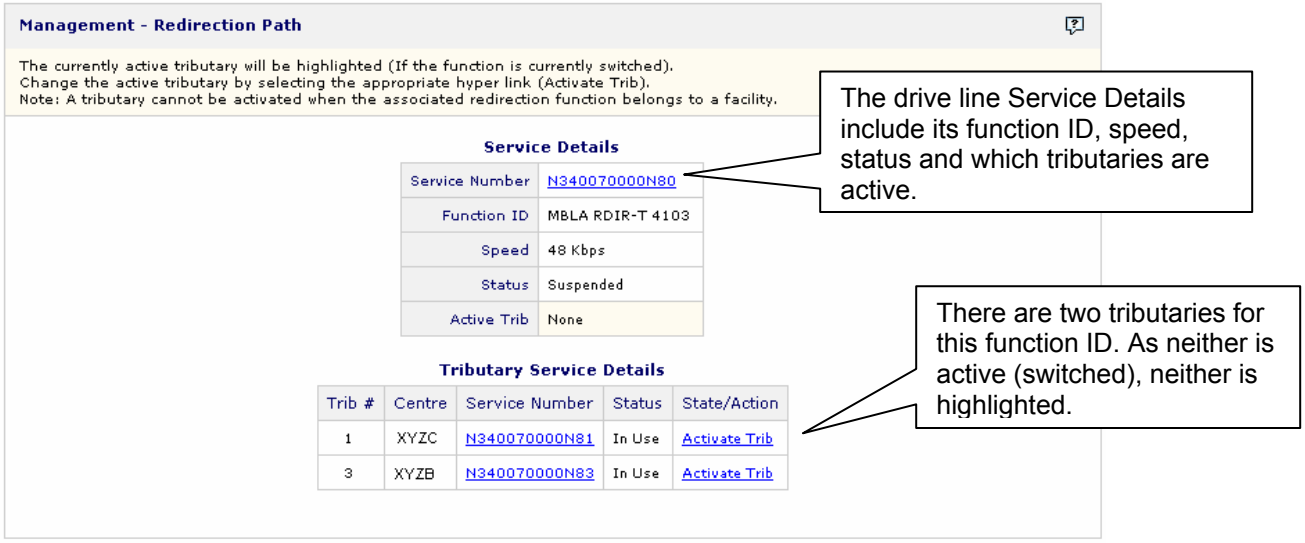

Management - Redirection Path
The currently active tributary will be highlighted (If the function is currently switched).
Change the active tributary by selecting the appropriate hyper link (Activate Trib).
Note: A tributary cannot be activated when the associated redirection function belongs to a facility.
Service Details
Service Number N340070000N80
Function ID MBLA RDIR-T 4103
Speed 48 Kbps
Status Suspended
Active Trib None
Tributary Service Details
Trib # Centre Service Number Status State/Action
1 XYZC N340070000N81 In Use Activate Trib
3 XYZB N340070000N83 In Use Activate Trib
The drive line Service Details include its function ID, speed, status and which tributaries are active.
There are two tributaries for this function ID. As neither is active (switched), neither is highlighted.

Figure 3.3.2 – Redirection Path- Service and Tributary Details

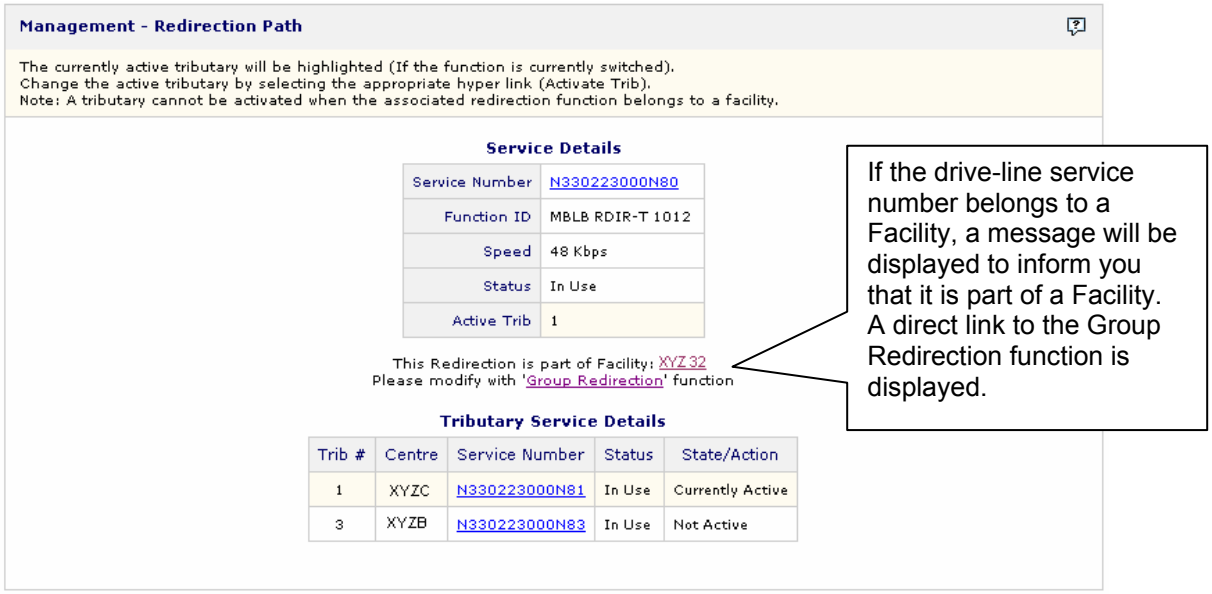

Management - Redirection Path
The currently active tributary will be highlighted (If the function is currently switched).
Change the active tributary by selecting the appropriate hyper link (Activate Trib).
Note: A tributary cannot be activated when the associated redirection function belongs to a facility.
Service Details
Service Number N330223000N80
Function ID MBLB RDIR-T 1012
Speed 48 Kbps
Status In Use
Active Trib 1
This Redirection is part of Facility: XYZ 32
Please modify with 'Group Redirection' function
Tributary Service Details
Trib # Centre Service Number Status State/Action
1 XYZC N330223000N81 In Use Currently Active
3 XYZB N330223000N83 In Use Not Active
If the drive-line service number belongs to a Facility, a message will be displayed to inform you that it is part of a Facility. A direct link to the Group Redirection function is displayed.

Figure 3.3.3 – An example of a drive-line service which belongs to a facility

An error message is displayed if the input data is incorrect or not applicable to this function.

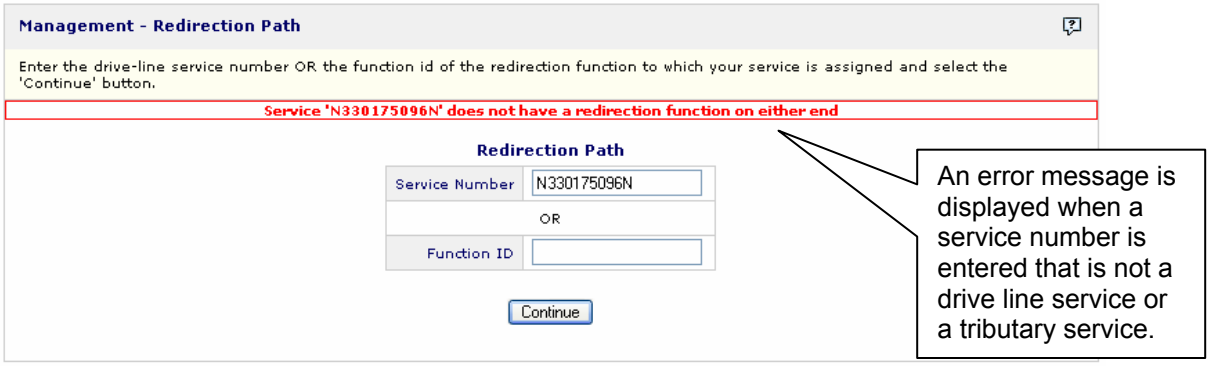

Management - Redirection Path
Enter the drive-line service number OR the function id of the redirection function to which your service is assigned and select the 'Continue' button.
Service 'N330175096N' does not have a redirection function on either end
Redirection Path
Service Number
N330175096N
OR
Function ID
Continue
An error message is displayed when a service number is entered that is not a drive line service or a tributary service.

Figure 3.3.4 – An error message in the Redirection Path function.

If a drive line service number is connected to a redirection function on both ends, 2 sets of details are displayed as shown in Figure 3.3.5.

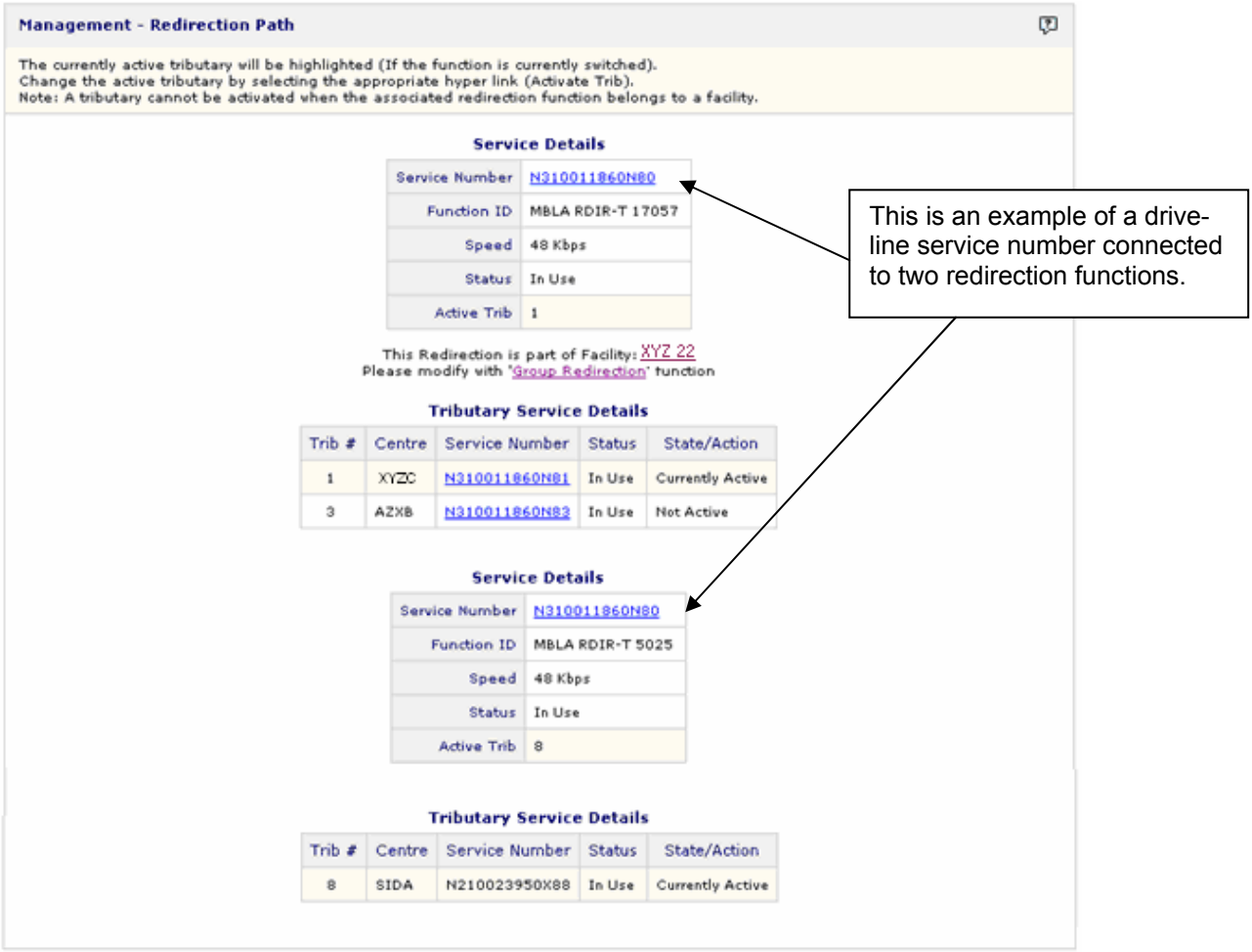

Management - Redirection Path
The currently active tributary will be highlighted (If the function is currently switched).
Change the active tributary by selecting the appropriate hyper link (Activate Trib).
Note: A tributary cannot be activated when the associated redirection function belongs to a facility.
Service Details
Service Number N310011860N80
Function ID MBLA RDIR-T 17057
Speed 48 Kbps
Status In Use
Active Trib 1
This Redirection is part of Facility: XYZ 22
Please modify with 'Group Redirection' function
Tributary Service Details
Trib # Centre Service Number Status State/Action
1 XYZC N310011860N81 In Use Currently Active
3 AZXB N310011860N83 In Use Not Active
Service Details
Service Number N310011860N80
Function ID MBLA RDIR-T 5025
Speed 48 Kbps
Status In Use
Active Trib 8
Tributary Service Details
Trib # Centre Service Number Status State/Action
8 SIDA N210023950X88 In Use Currently Active
This is an example of a drive-line service number connected to two redirection functions.

Figure 3.3.5 – A drive line service connected to two function IDs.

If the drive-line service has zero tributary services, the Tributary Service Details table will be empty.

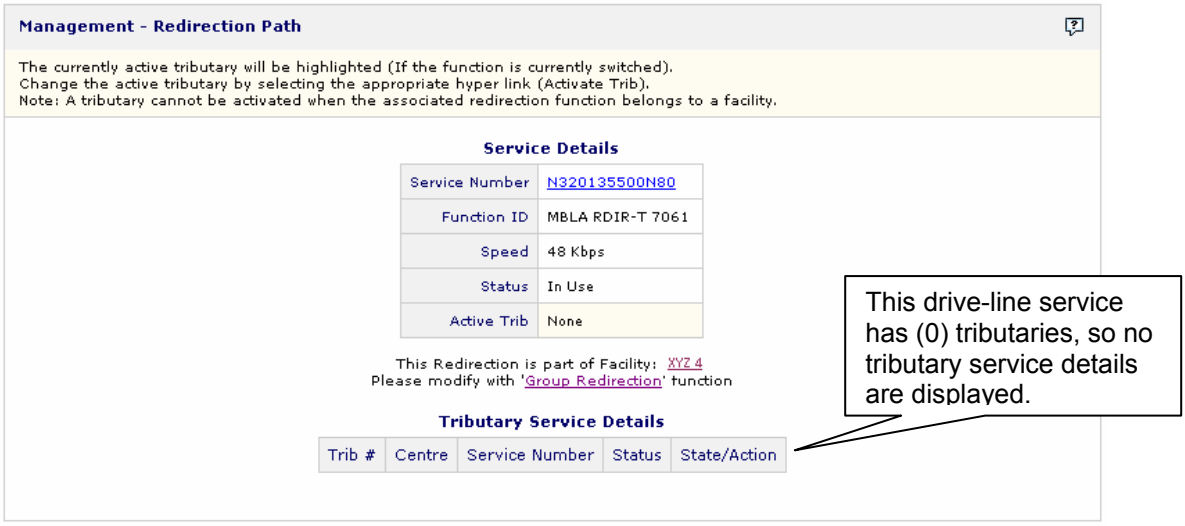

Management - Redirection Path
The currently active tributary will be highlighted (If the function is currently switched).
Change the active tributary by selecting the appropriate hyper link (Activate Trib).
Note: A tributary cannot be activated when the associated redirection function belongs to a facility.
Service Details
Service Number N320135500N80
Function ID MBLA RDIR-T 7061
Speed 48 Kbps
Status In Use
Active Trib None
This Redirection is part of Facility: XYZ 4
Please modify with 'Group Redirection' function
Tributary Service Details
Trib # Centre Service Number Status State/Action
This drive-line service has (0) tributaries, so no tributary service details are displayed.

Figure 3.3.6 – A drive-line service which has no tributaries.

If you entered in a tributary service ID instead of a drive line service ID, the service details and tributary service details of the redirection will still be displayed as usual, as if you had entered in the drive-line service ID. However, if the tributary service you entered belongs to a drive-line service which has two redirection functions then there will be a difference in the details displayed. Only one end of the drive line service details are displayed (the redirection function ID connected to the tributary specified). Figure 3.3.7 and Figure 3.3.8 show the difference in output.

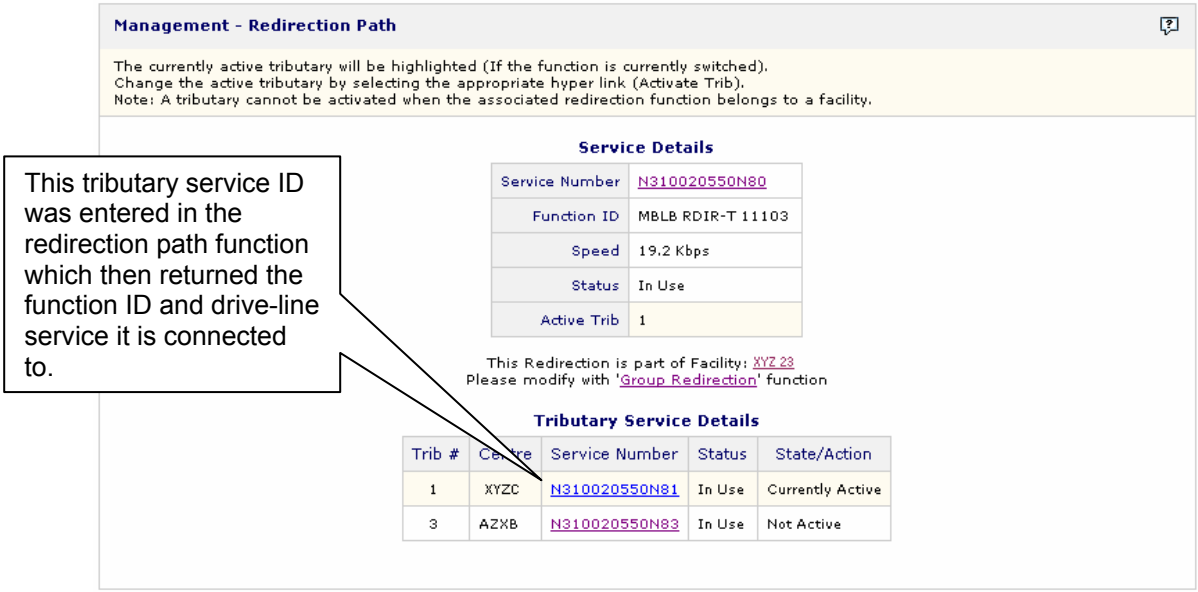

Management - Redirection Path
The currently active tributary will be highlighted (If the function is currently switched).
Change the active tributary by selecting the appropriate hyper link (Activate Trib).
Note: A tributary cannot be activated when the associated redirection function belongs to a facility.
This tributary service ID was entered in the redirection path function which then returned the function ID and drive-line service it is connected to.
Service Details
Service Number N310020550N80
Function ID MBLB RDIR-T 11103
Speed 19.2 Kbps
Status In Use
Active Trib 1
This Redirection is part of Facility: XYZ 23
Please modify with 'Group Redirection' function
Tributary Service Details
Trib # Centre Service Number Status State/Action
1 XYZC N310020550N81 In Use Currently Active
3 AZXB N310020550N83 In Use Not Active

Figure 3.3.7 – Details that belong to one end of a drive-line service that has two redirection functions.

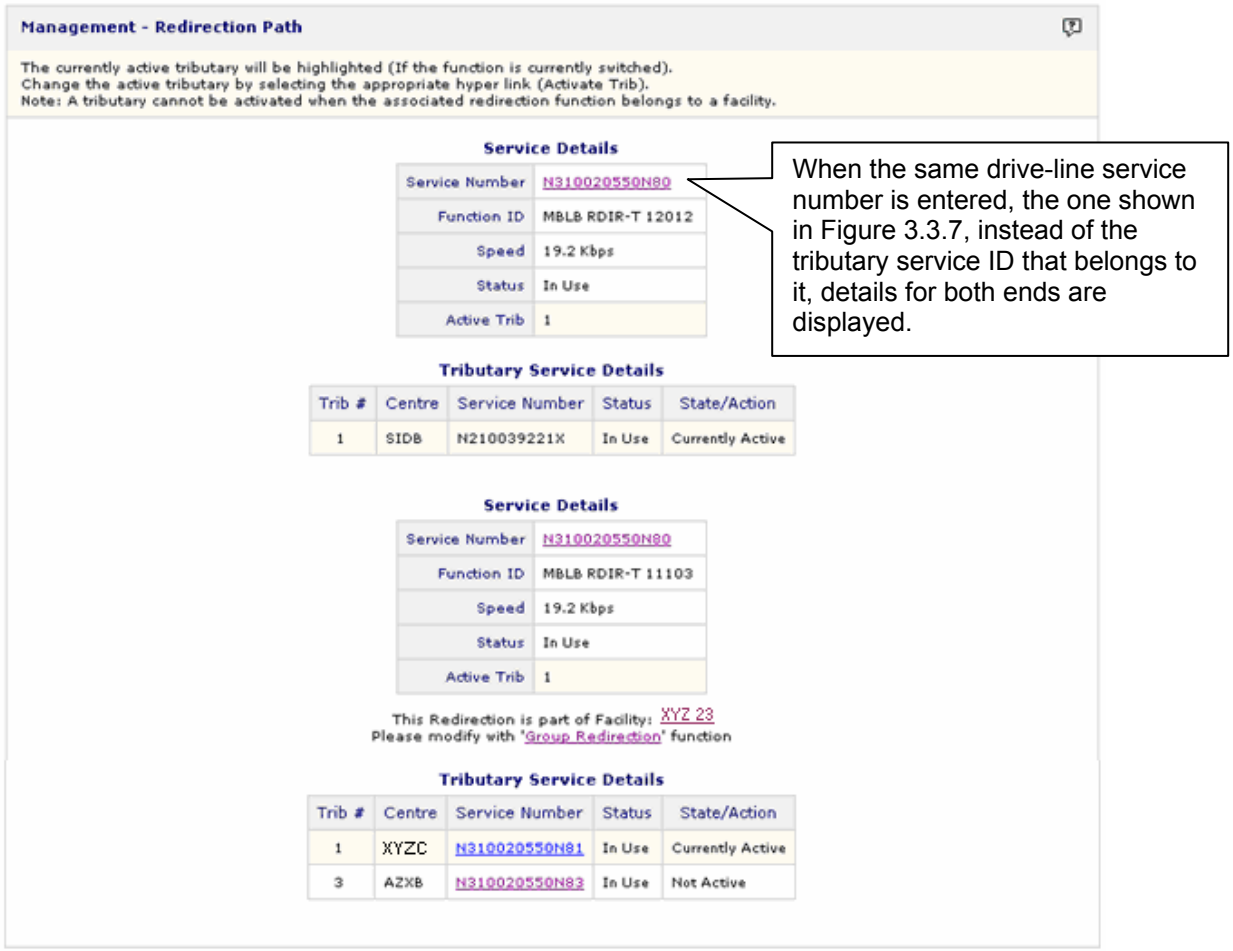

Management - Redirection Path
The currently active tributary will be highlighted (If the function is currently switched).
Change the active tributary by selecting the appropriate hyper link (Activate Trib).
Note: A tributary cannot be activated when the associated redirection function belongs to a facility.
Service Details
Service Number N310020550N80
Function ID MBLB RDIR-T 12012
Speed 19.2 Kbps
Status In Use
Active Trib 1
When the same drive-line service number is entered, the one shown in Figure 3.3.7, instead of the tributary service ID that belongs to it, details for both ends are displayed.
Tributary Service Details
Trib # Centre Service Number Status State/Action
1 SIDB N210039221X In Use Currently Active
Service Details
Service Number N310020550N80
Function ID MBLB RDIR-T 11103
Speed 19.2 Kbps
Status In Use
Active Trib 1
This Redirection is part of Facility: XYZ 23
Please modify with 'Group Redirection' function
Tributary Service Details
Trib # Centre Service Number Status State/Action
1 XYZC N310020550N81 In Use Currently Active
3 AZXB N310020550N83 In Use Not Active

Figure 3.3.8 – Drive-line service with two redirection functions.

Field Descriptions

Input fields

Service Number

The drive-line service number of the redirection function. If an entry is made in this field leave the *Redirection Function* field blank. (A tributary service ID is accepted as well.)

Redirection Function

Redirection function, which may be a RDIR-T or RDIR-T6. If an entry is made in this field leave the *Service Number* field blank.

Output fields

Service Details has 5 fields:

Service Number

Displays the drive-line service number that you entered into the redirection function. This is displayed as an active web link; when clicked, will display the Enquiries – Display Service Details function.

Function ID

Displays the function ID that the drive-line service number belongs to.

Speed

Displays the speed of the drive-line service.

Status

Displays the status of the drive – line service which can be either ‘in-use’ or ‘suspended’.

Active Trib

Displays the active tributary number. If there are no active tributaries ‘none’ will be displayed in this field.

Tributary Service Details has 5 fields:

Trib #

Displays the number of the tributary service.

Centre

Displays the centre name the tributary is connected to at one end (the function ID being the other end).

Service Number

Displays the tributary service number as a web link. When clicked it will open the Enquires-Display Service Details function.

Status

Displays the status of the tributary service which can be either ‘in-use’ or ‘suspended’.

State/Action

This field will display either a state or an action depending on whether the tributary service is part of a facility.

If the tributary service is not part of a facility, the field can have one of two values displayed, either the state ‘Currently Active’ or the action ‘Activate Trib’. That is, if there are no tributaries active for this function ID, all records will have ‘Activate Trib’ displayed (see Figure 3.3.11). If there is an active tributary, it will display ‘Currently Active’ and all remaining tributaries will display the action command (See Figure 3.3.9).

If the tributary is part of a facility only the state of the tributary will be displayed, either ‘Currently Active’ or ‘Not Active’. No actions to activate a tributary will be displayed. If one tributary is ‘Currently Active’, then all other tributaries in the list will display ‘Not Active’. If no tributaries are active, then all tributaries will have ‘Not Active’ displayed (See Figure 3.3.10).

Tributary Service Details
Trib # | Centre | Service Number | Status | State/Action
7 | SMEY | N310001260N87 | In Use | Currently Active
8 | LOND | N310001260N88 | In Use | Activate Trib
Clicking on this link allows you to make this link the active tributary.

Figure 3.3.9 –Part of the Management-Redirection Path display function, it shows a tributary with an 'Activate Trib' action.

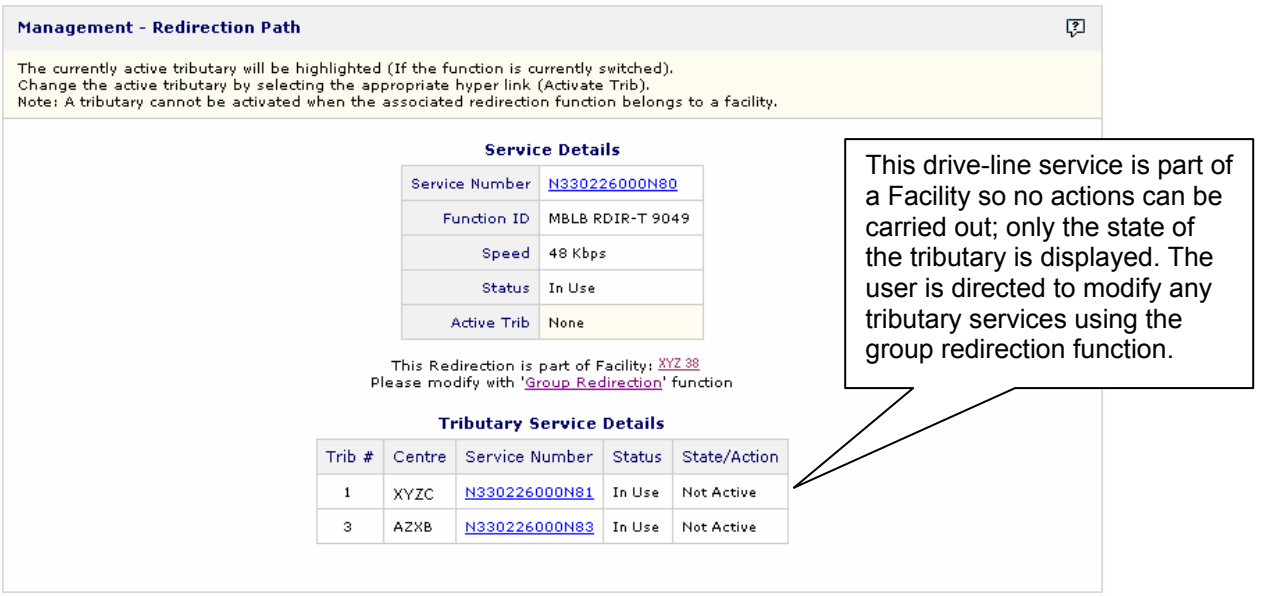

Management - Redirection Path
The currently active tributary will be highlighted (If the function is currently switched).
Change the active tributary by selecting the appropriate hyper link (Activate Trib).
Note: A tributary cannot be activated when the associated redirection function belongs to a facility.
Service Details
Service Number | N330226000N80
Function ID | MBLB RDIR-T 9049
Speed | 48 Kbps
Status | In Use
Active Trib | None
This Redirection is part of Facility: XYZ 38
Please modify with 'Group Redirection' function
Tributary Service Details
Trib # | Centre | Service Number | Status | State/Action
1 | XYZC | N330226000N81 | In Use | Not Active
3 | AZXB | N330226000N83 | In Use | Not Active
This drive-line service is part of a Facility so no actions can be carried out; only the state of the tributary is displayed. The user is directed to modify any tributary services using the group redirection function.

Figure 3.3.10 – A drive line service that is part of a facility when it is displayed using the redirection path function.

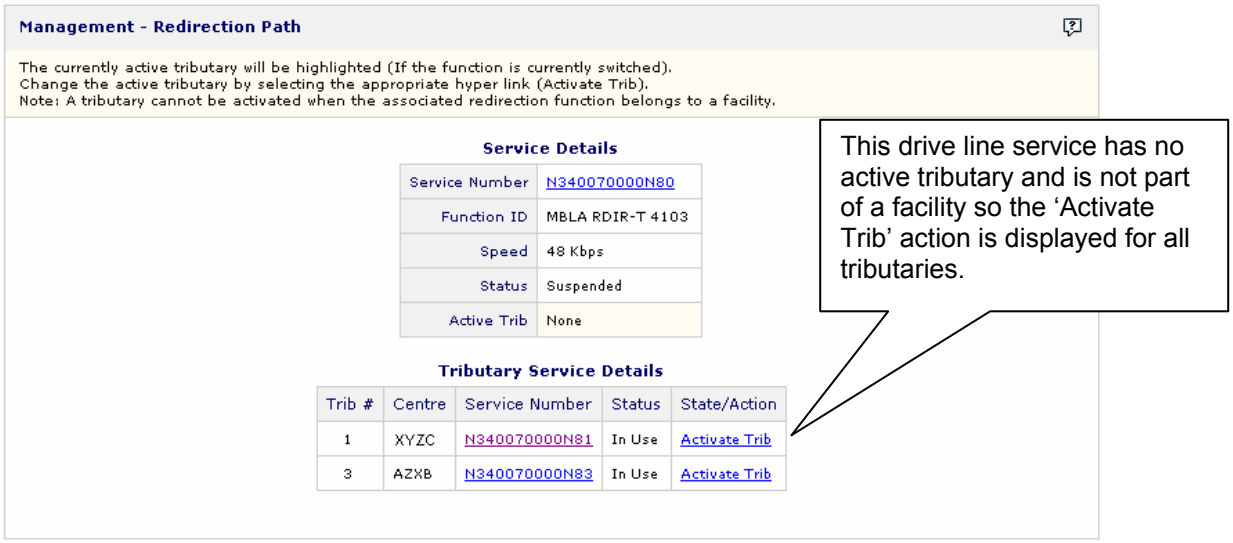

Management - Redirection Path
The currently active tributary will be highlighted (If the function is currently switched).
Change the active tributary by selecting the appropriate hyper link (Activate Trib).
Note: A tributary cannot be activated when the associated redirection function belongs to a facility.
Service Details
Service Number | N340070000N80
Function ID | MBLA RDIR-T 4103
Speed | 48 Kbps
Status | Suspended
Active Trib | None
Tributary Service Details
Trib # | Centre | Service Number | Status | State/Action
1 | XYZC | N340070000N81 | In Use | Activate Trib
3 | AZXB | N340070000N83 | In Use | Activate Trib
This drive line service has no active tributary and is not part of a facility so the 'Activate Trib' action is displayed for all tributaries.

Figure 3.3.11 – A drive line service not part of a facility and no active tributary - displayed in the redirection path function.

Shown below is an example of a drive-line service that has 2 redirection functions. The tributaries at one end belong to a facility and not on the other.

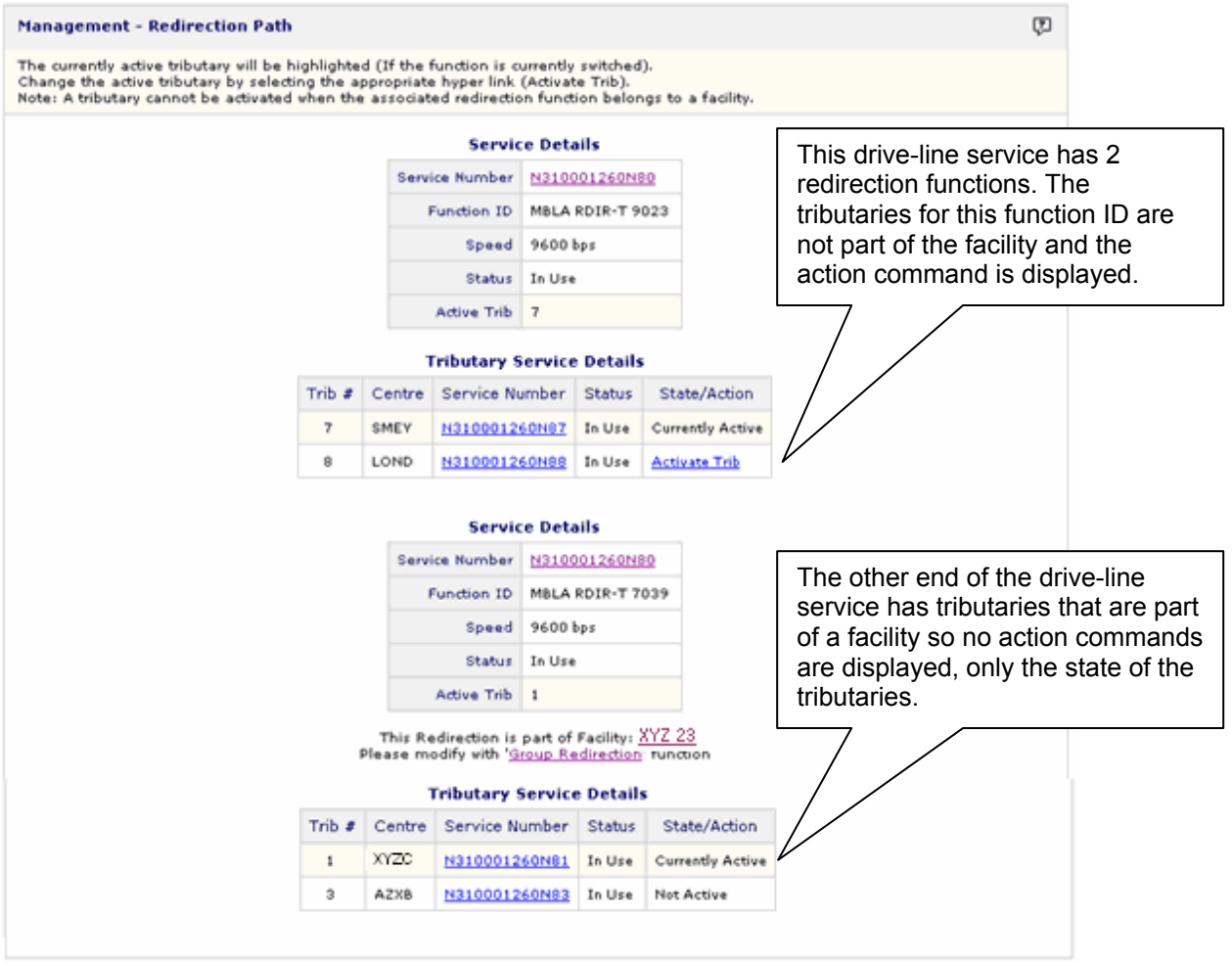

Management - Redirection Path
The currently active tributary will be highlighted (If the function is currently switched).
Change the active tributary by selecting the appropriate hyper link (Activate Trib).
Note: A tributary cannot be activated when the associated redirection function belongs to a facility.
Service Details
Service Number N310001260N80
Function ID M8LA RDIR-T 9023
Speed 9600 bps
Status In Use
Active Trib 7
Tributary Service Details
Trib # Centre Service Number Status State/Action
7 SMEY N310001260N87 In Use Currently Active
8 LOND N310001260N88 In Use Activate Trib
This drive-line service has 2 redirection functions. The tributaries for this function ID are not part of the facility and the action command is displayed.
Service Details
Service Number N310001260N80
Function ID M8LA RDIR-T 7039
Speed 9600 bps
Status In Use
Active Trib 1
This Redirection is part of Facility: XYZ 23
Please modify with 'Group Redirection' function
Tributary Service Details
Trib # Centre Service Number Status State/Action
1 XYZC N310001260N81 In Use Currently Active
3 AZXB N310001260N83 In Use Not Active
The other end of the drive-line service has tributaries that are part of a facility so no action commands are displayed, only the state of the tributaries.

Figure 3.3.12 – An example of tributaries that are part of a facility at one end of a drive-line service and not the other.

3.3.3. Change Redirection Path

Description

This function enables you to change the path of a redirection function by activating a different tributary. As explained in Section 3.3.2 Display Redirection Path, only tributaries that are not part of a Facility can have their state changed using this function. For tributaries that belong to a Facility, the redirection path can only be changed using the Group Redirection function.

Usage

Invoke the Redirection Path function located in the navigation bar. Enter the drive-line service number or the ID of the redirection function to which your service is assigned. Click on the *Continue* button.

The system responds by displaying the drive-line service and tributary service details. An example is shown below.

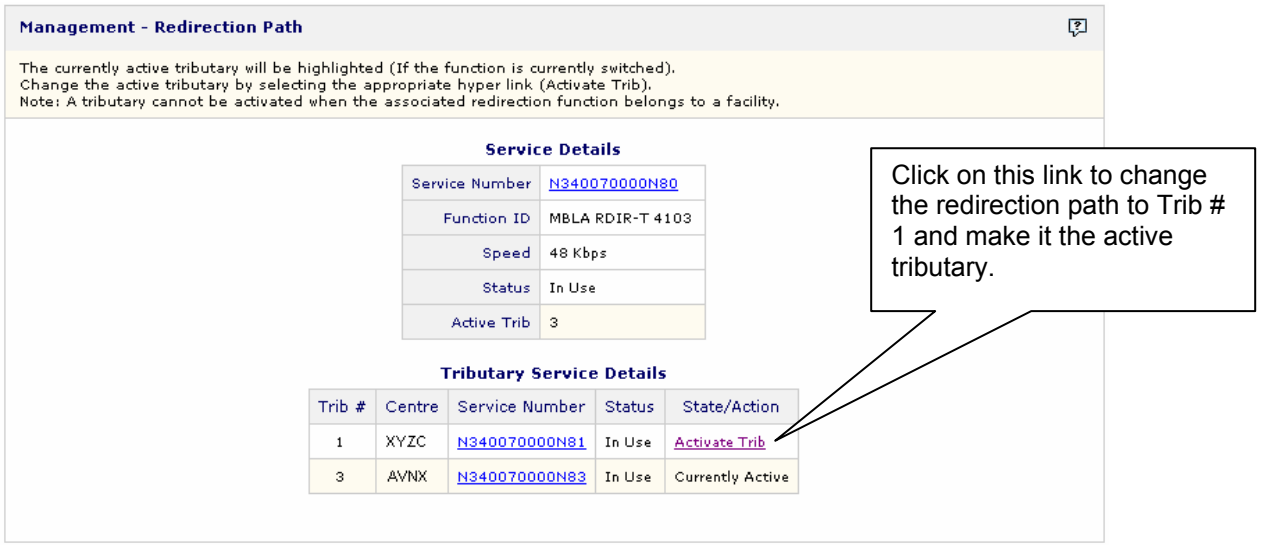

Management - Redirection Path
The currently active tributary will be highlighted (If the function is currently switched).
Change the active tributary by selecting the appropriate hyper link (Activate Trib).
Note: A tributary cannot be activated when the associated redirection function belongs to a facility.
Service Details
Service Number N340070000N80
Function ID MBLA RDIR-T 4103
Speed 48 Kbps
Status In Use
Active Trib 3
Tributary Service Details
Trib # Centre Service Number Status State/Action
1 XYZC N340070000N81 In Use Activate Trib
3 AVNX N340070000N83 In Use Currently Active
Click on this link to change the redirection path to Trib # 1 and make it the active tributary.

Figure 3.3.13 – Redirection Path Details after a service number has been entered.

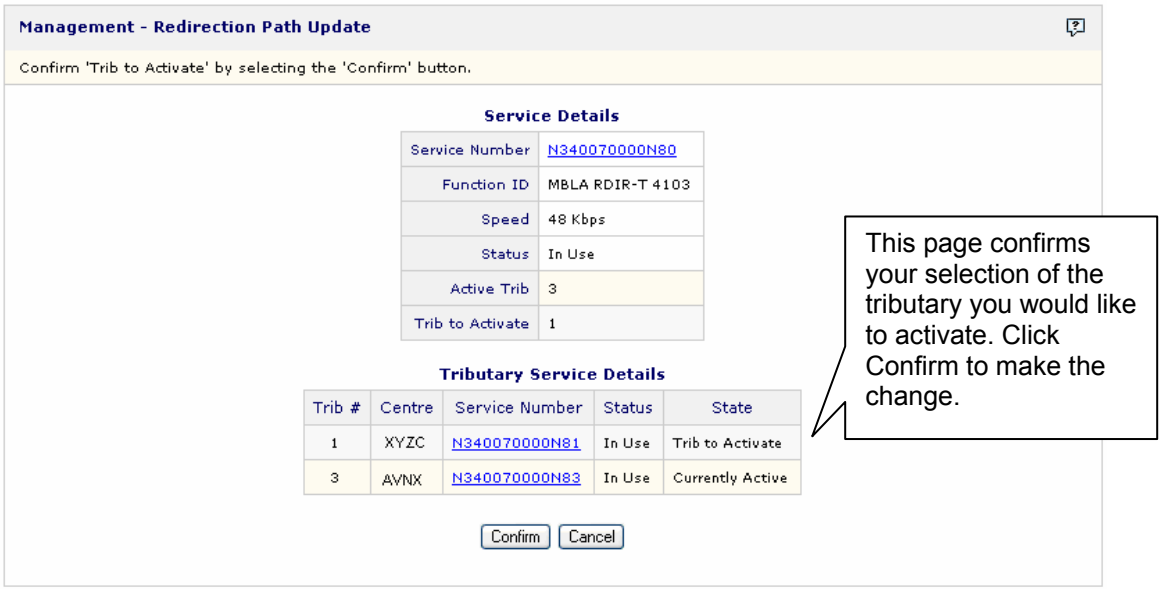

Management - Redirection Path Update
Confirm 'Trib to Activate' by selecting the 'Confirm' button.
Service Details
Service Number N340070000N80
Function ID MBLA RDIR-T 4103
Speed 48 Kbps
Status In Use
Active Trib 3
Trib to Activate 1
Tributary Service Details
Trib # Centre Service Number Status State
1 XYZC N340070000N81 In Use Trib to Activate
3 AVNX N340070000N83 In Use Currently Active
Confirm Cancel
This page confirms your selection of the tributary you would like to activate. Click Confirm to make the change.

Figure 3.3.14 – Redirection path update

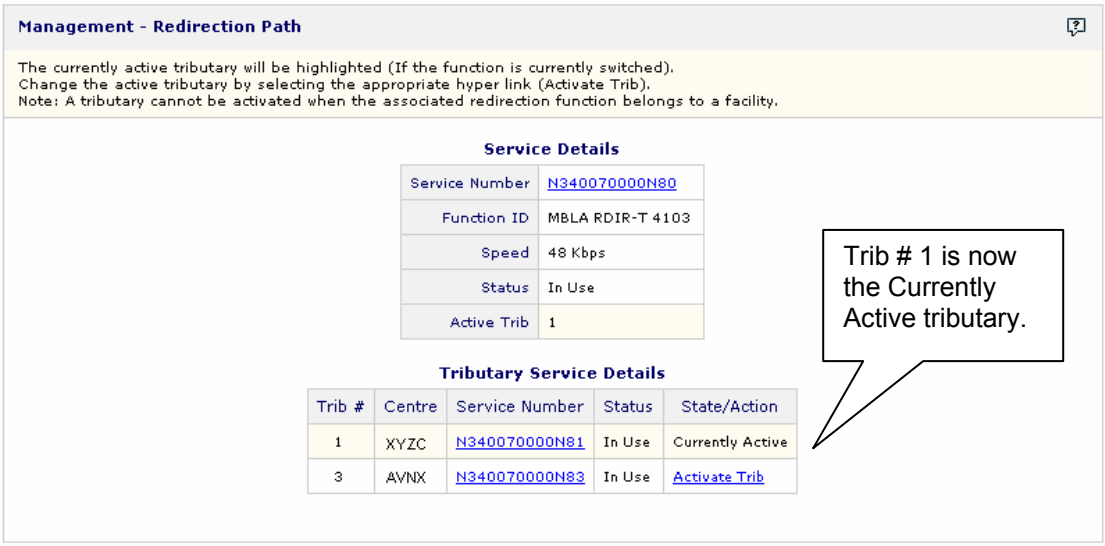

Management - Redirection Path
The currently active tributary will be highlighted (If the function is currently switched).
Change the active tributary by selecting the appropriate hyper link (Activate Trib).
Note: A tributary cannot be activated when the associated redirection function belongs to a facility.
Service Details
Service Number N340070000N80
Function ID MBLA RDIR-T 4103
Speed 48 Kbps
Status In Use
Active Trib 1
Tributary Service Details
Trib # Centre Service Number Status State/Action
1 XYZC N340070000N81 In Use Currently Active
3 AVNX N340070000N83 In Use Activate Trib
Trib # 1 is now the Currently Active tributary.

Figure 3.3.15 – The display redirection path function is displayed after the new tributary has been confirmed.

3.4. Group Redirection

Description

This function is the central starting point for all group redirection functionality from which you will be able to perform the following actions:

Display, modify, delete or create a facility.

Display, activate, modify, create, or clone a configuration.

When the Group Redirection function is clicked the following screen appears – the Facility Summary.

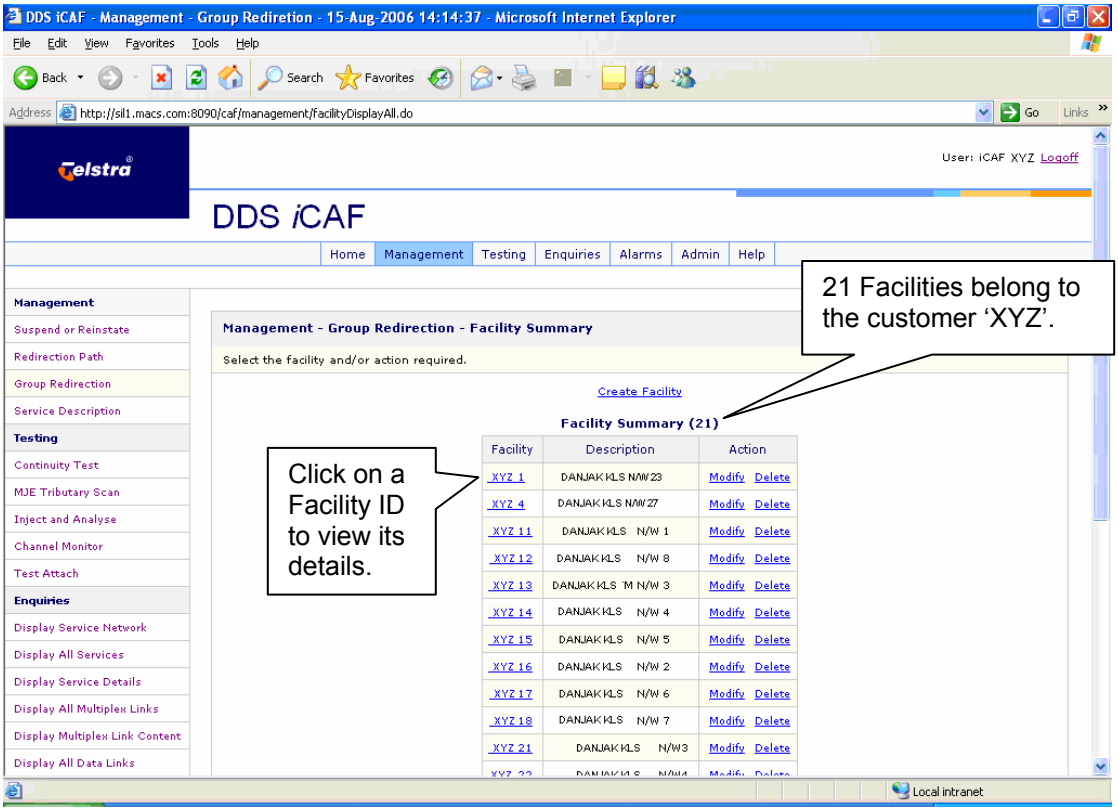


Figure 3.4.1- Opening screen when the Group Redirection function is invoked.

The facility summary contains a list of all the Facilities that belong to you, the customer.

3.4.1. Display Facility Details

Click on a Facility ID to view its details.

The details of the facility will be displayed as in Figure 3.4.2.

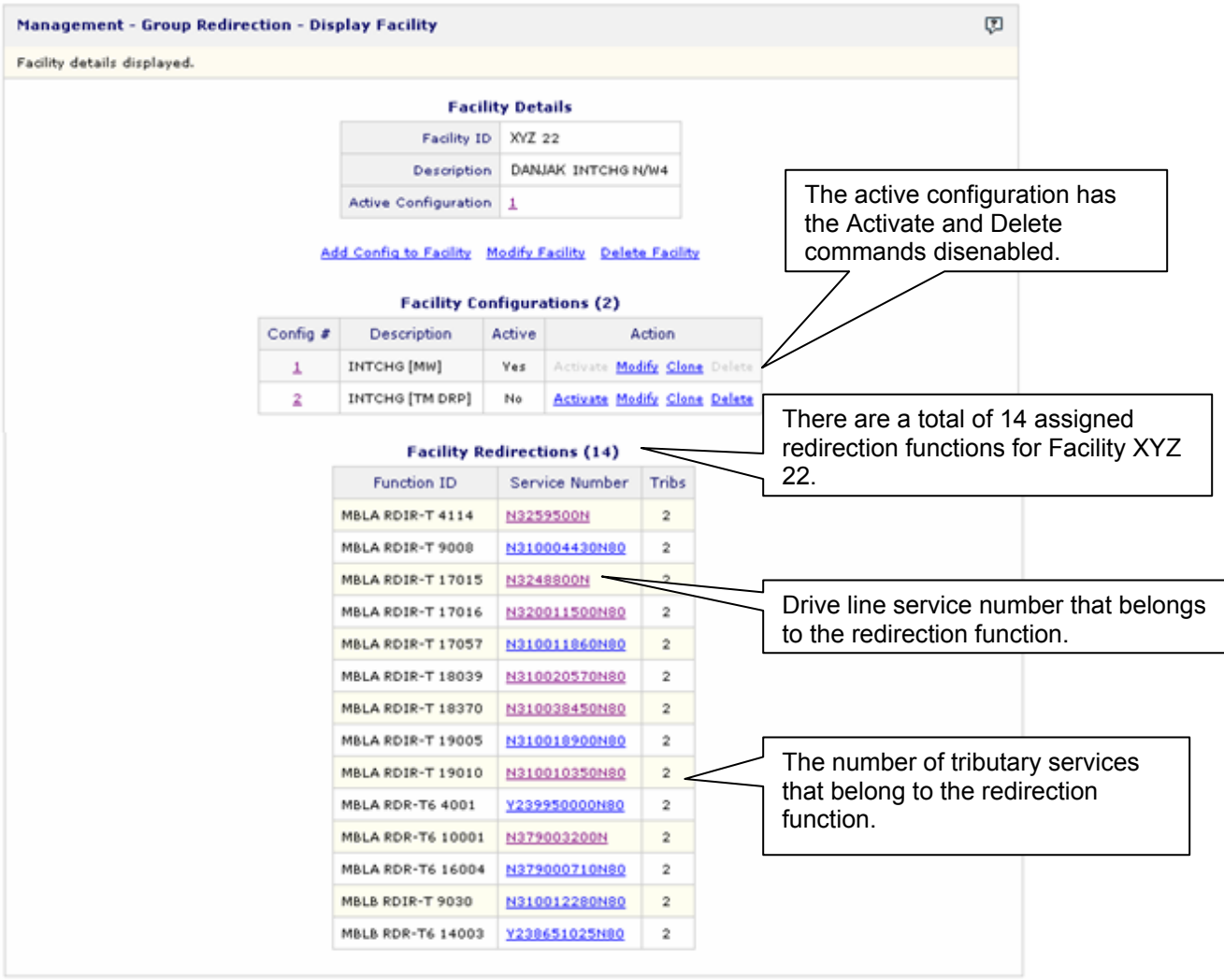

Management - Group Redirection - Display Facility
Facility details displayed.
Facility Details
Facility ID XYZ 22
Description DANJAK INTCHG N/W4
Active Configuration 1
Add Config to Facility Modify Facility Delete Facility
Facility Configurations (2)
Config # Description Active Action
1 INTCHG [MW] Yes Activate Modify Clone Delete
2 INTCHG [TM DRP] No Activate Modify Clone Delete
Facility Redirections (14)
Function ID Service Number Tribs
MBLA RDIR-T 4114 N3259500N 2
MBLA RDIR-T 9008 N310004430N80 2
MBLA RDIR-T 17015 N3248800N 2
MBLA RDIR-T 17016 N320011500N80 2
MBLA RDIR-T 17057 N310011860N80 2
MBLA RDIR-T 18039 N310020570N80 2
MBLA RDIR-T 18370 N310038450N80 2
MBLA RDIR-T 19005 N310018900N80 2
MBLA RDIR-T 19010 N310010350N80 2
MBLA RDR-T6 4001 Y239950000N80 2
MBLA RDR-T6 10001 N379003200N 2
MBLA RDR-T6 16004 N379000710N80 2
MBLB RDIR-T 9030 N310012280N80 2
MBLB RDR-T6 14003 Y238651025N80 2
The active configuration has the Activate and Delete commands disenabled.
There are a total of 14 assigned redirection functions for Facility XYZ 22.
Drive line service number that belongs to the redirection function.
The number of tributary services that belong to the redirection function.

Figure 3.4.2 – Display Facility Details

Field Descriptions

The field descriptions refer to those in Figure 3.4.2.

Facility Details has 3 fields:

Facility ID

A unique number of the facility.

Description

A description of the facility.

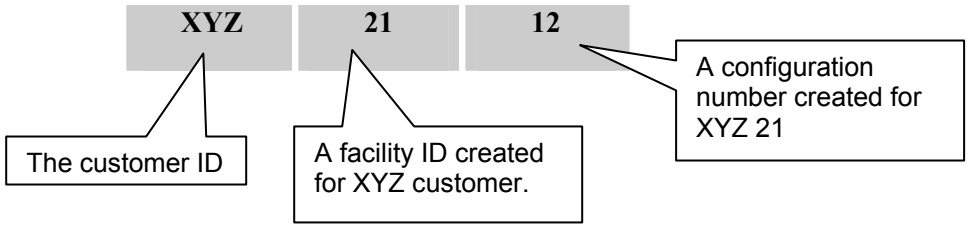
Active Configuration

The number of the active configuration for the specified facility ID, displayed as a web link. When clicked it will display the Management - Group Redirection - Display Configuration function. If no configuration is active, this field will contain 'None'.

Facility Configurations has 4 fields:

Config #

The number of the configuration. Each configuration belonging to a facility ID will be displayed. The configuration number can be any number between 1 and 127 (this applies to all facilities). A configuration number is unique because it belongs to a Facility. For example, a config number such as 12 (created for facility ID '21' and for the customer ID 'XYZ') will be stored as XYZ 21 12.



Clicking on the configuration number displays the assigned redirections as in Figure 3.4.4.

Description

A description of the configuration.

Active

If the configuration is active, the field will display 'Yes'. This means all other configurations for this facility will display 'No'.

Action

Four web links are displayed in this field. The user is able to carry out four actions regarding configuration. The user can Activate, Modify, Clone and Delete a configuration by clicking on one of the links.

Facility Configurations (2)
Config # | Description | Active | Action
1 | INTCHG [MW] | Yes | Activate Modify Clone Delete
2 | INTCHG [TM DRP] | No | Activate Modify Clone Delete
When a Config is active the Activate and Delete actions are disabled.

Figure 3.4.3- A list of existing Facility Configurations.

Facility Redirections has 3 fields:

Function ID

A unique number of the redirection function.

Service Number

The driveline service number of the redirection function.

Tribs

The number of tributary services that belong to the redirection function. (A redirection function can have a maximum of 8 tributaries)

Figure 3.4.4 displays details about a particular configuration. The service number of the tributary that will be utilized for each function ID is displayed in the list.

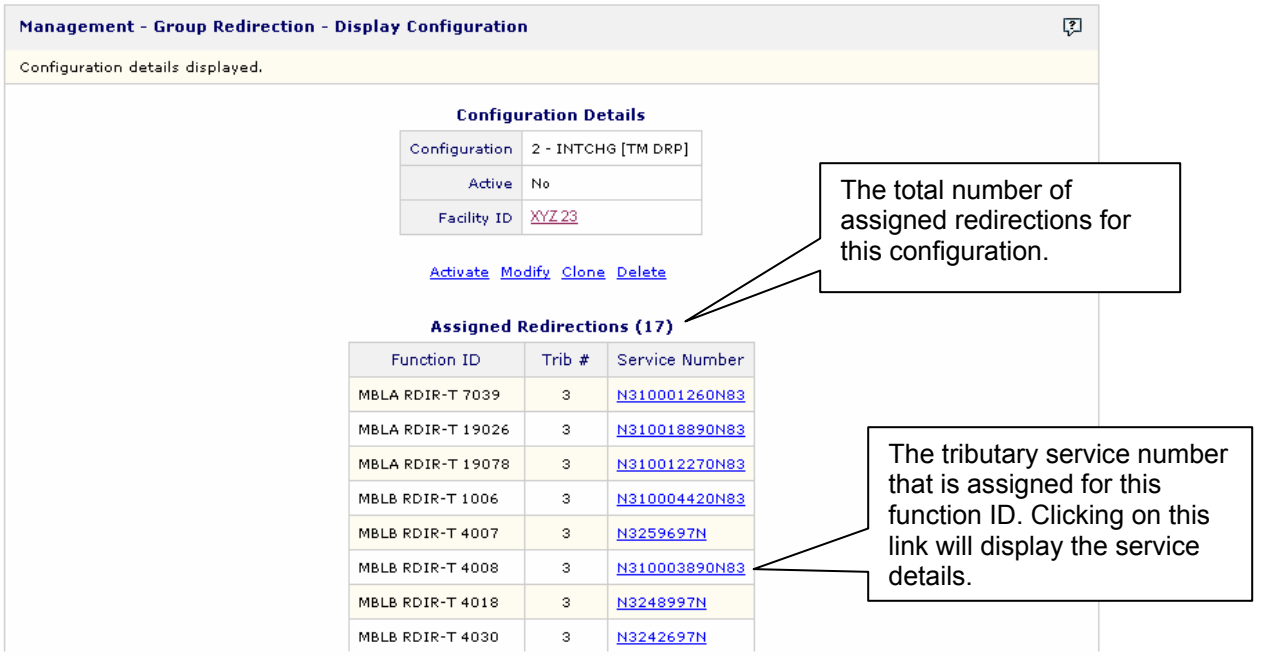

Management - Group Redirection - Display Configuration
Configuration details displayed.
Configuration Details
Configuration 2 - INTCHG [TM DRP]
Active No
Facility ID XYZ 23
Activate Modify Clone Delete
Assigned Redirections (17)
Function ID Trib # Service Number
MBLA RDIR-T 7039 3 N310001260N83
MBLA RDIR-T 19026 3 N310018890N83
MBLA RDIR-T 19078 3 N310012270N83
MBLB RDIR-T 1006 3 N310004420N83
MBLB RDIR-T 4007 3 N3259697N
MBLB RDIR-T 4008 3 N310003890N83
MBLB RDIR-T 4018 3 N3248997N
MBLB RDIR-T 4030 3 N3242697N
The total number of assigned redirections for this configuration.
The tributary service number that is assigned for this function ID. Clicking on this link will display the service details.

Figure 3.4.4 – Configuration Details

If a function ID does not use any tributaries, the trib# field will display ‘not used’ as shown in Figure 3.4.5.

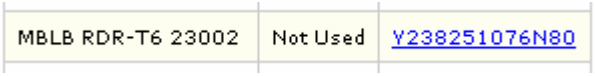


Figure 3.4.5 – An example of a configuration which contains a function ID that does not use any tributaries.

3.4.2. Modify Facility Details

To modify a facility, display a facility's details as in Figure 3.4.2 and click on the 'Modify Facility' link or click on the 'Modify' link which is displayed in the Facility Summary (Figure 3.4.1).

The following screen appears.

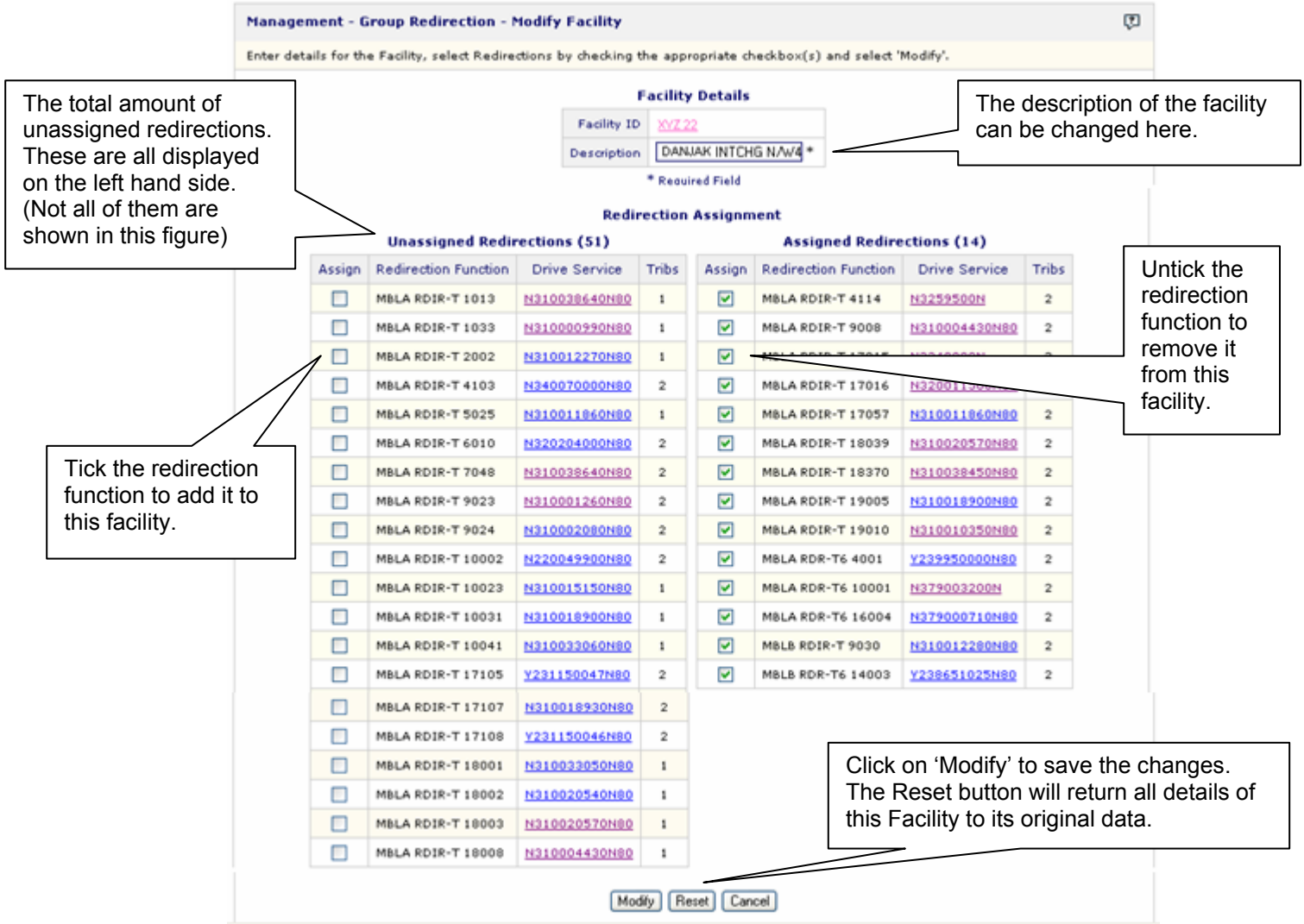

Management - Group Redirection - Modify Facility
Enter details for the Facility, select Redirections by checking the appropriate checkbox(s) and select 'Modify'.
Facility Details
Facility ID XYZ22
Description DANJAK INTCHG N/W4 *
* Required Field
Redirection Assignment
Unassigned Redirections (51)
Assigned Redirections (14)
Assign | Redirection Function | Drive Service | Tribs
MBLA RDIR-T 1013 N310038640N80 1
MBLA RDIR-T 1033 N310000990N80 1
MBLA RDIR-T 2002 N310012270N80 1
MBLA RDIR-T 4103 N340070000N80 2
MBLA RDIR-T 5025 N310011860N80 1
MBLA RDIR-T 6010 N320204000N80 2
MBLA RDIR-T 7048 N310038640N80 2
MBLA RDIR-T 9023 N310001260N80 2
MBLA RDIR-T 9024 N310002080N80 2
MBLA RDIR-T 10002 N220049900N80 2
MBLA RDIR-T 10023 N310015150N80 1
MBLA RDIR-T 10031 N310018900N80 1
MBLA RDIR-T 10041 N310033060N80 1
MBLA RDIR-T 17105 Y231150047N80 2
MBLA RDIR-T 17107 N310018930N80 2
MBLA RDIR-T 17108 Y231150046N80 2
MBLA RDIR-T 18001 N310033050N80 1
MBLA RDIR-T 18002 N310020540N80 1
MBLA RDIR-T 18003 N310020570N80 1
MBLA RDIR-T 18008 N310004430N80 1
MBLA RDIR-T 4114 N3259500N 2
MBLA RDIR-T 9008 N310004430N80 2
MBLA RDIR-T 17016 N320011
MBLA RDIR-T 17057 N310011860N80 2
MBLA RDIR-T 18039 N310020570N80 2
MBLA RDIR-T 18370 N310038450N80 2
MBLA RDIR-T 19005 N310018900N80 2
MBLA RDIR-T 19010 N310010350N80 2
MBLA RDR-T6 4001 Y239950000N80 2
MBLA RDR-T6 10001 N379003200N 2
MBLA RDR-T6 16004 N379000710N80 2
MBLB RDIR-T 9030 N310012280N80 2
MBLB RDR-T6 14003 Y238651025N80 2
Modify Reset Cancel
The total amount of unassigned redirections. These are all displayed on the left hand side. (Not all of them are shown in this figure)
The description of the facility can be changed here.
Untick the redirection function to remove it from this facility.
Tick the redirection function to add it to this facility.
Click on 'Modify' to save the changes. The Reset button will return all details of this Facility to its original data.

Figure 3.4.6 –Group Redirection - Modify Facility interface.

When an unassigned redirection function is ticked and the Modify button clicked, the redirection function will now be assigned to the facility. This means the redirection function assigned will no longer be available for any of the other facilities until it is removed. That is, a redirection function can only belong to one facility at a time.

3.4.3. Delete Facility

To delete a facility, click on the 'Delete' link which is displayed in the Facility Summary (Figure 3.4.1) or click on 'Delete Facility' in the Display Facility Details page (Figure 3.4.2).

The following screen will appear.

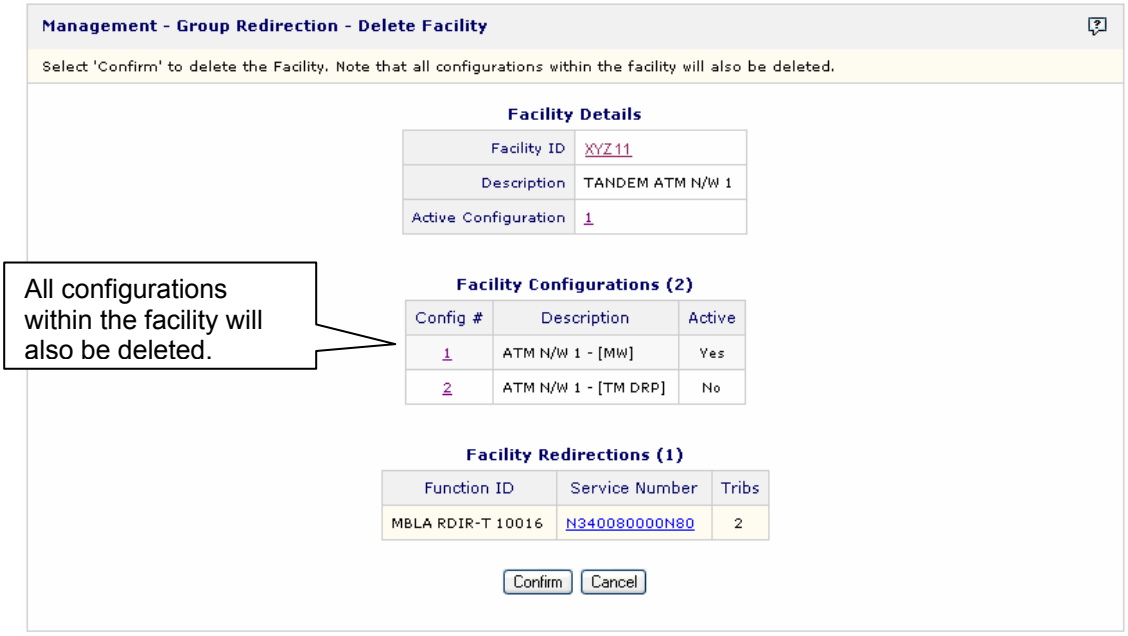


Figure 3.4.7 – Group Redirection – Delete Facility function

When the 'Confirm' button is clicked, the Group Redirection – Facility Summary page is displayed showing the facility has been removed from the list.

All redirections that belonged to this facility are now added to the unassigned redirections list, available to be assigned to another facility.

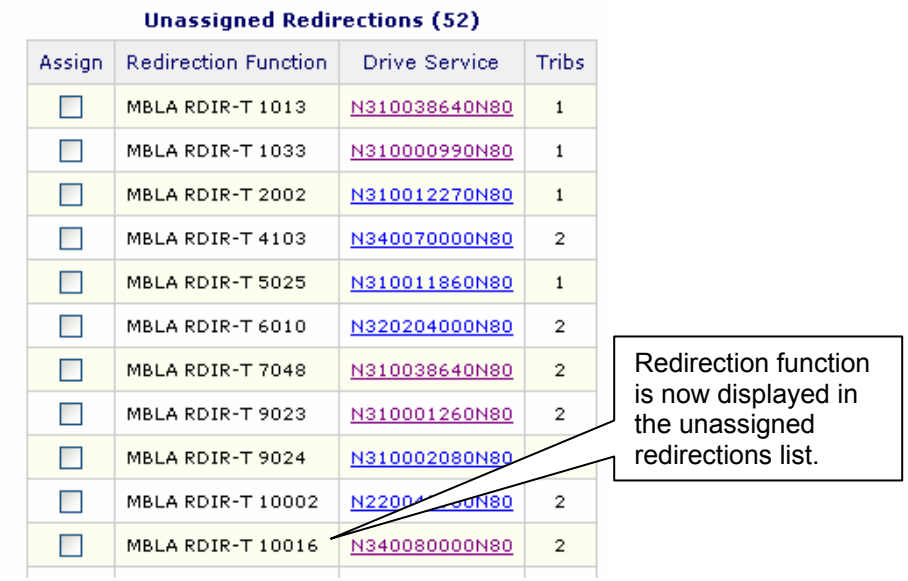


Figure 3.4.8 – An extract of the unassigned redirections list when the Modify Facility Page is open.

3.4.4. Create Facility

To create a redirection facility, click on 'Create Facility' located at the top of the Facility Summary (Figure 3.4.1).

The Create Facility interface will appear as shown below.

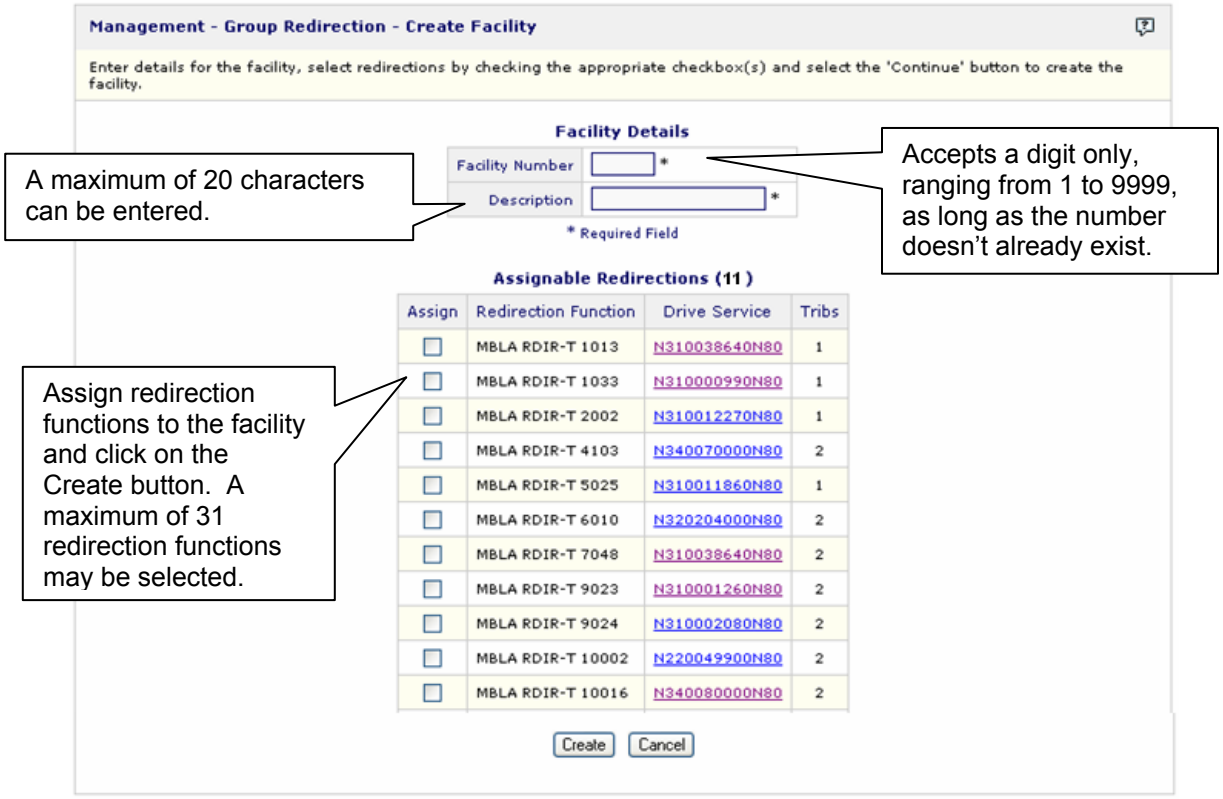

Management - Group Redirection - Create Facility
Enter details for the facility, select redirections by checking the appropriate checkbox(s) and select the 'Continue' button to create the facility.
Facility Details
Facility Number
Description
* Required Field
A maximum of 20 characters can be entered.
Accepts a digit only, ranging from 1 to 9999, as long as the number doesn't already exist.
Assignable Redirections (11)
Assign
Redirection Function
Drive Service
Tribs
MBLA RDIR-T 1013 N310038640N80 1
MBLA RDIR-T 1033 N310000990N80 1
MBLA RDIR-T 2002 N310012270N80 1
MBLA RDIR-T 4103 N340070000N80 2
MBLA RDIR-T 5025 N310011860N80 1
MBLA RDIR-T 6010 N320204000N80 2
MBLA RDIR-T 7048 N310038640N80 2
MBLA RDIR-T 9023 N310001260N80 2
MBLA RDIR-T 9024 N310002080N80 2
MBLA RDIR-T 10002 N220049900N80 2
MBLA RDIR-T 10016 N340080000N80 2
Assign redirection functions to the facility and click on the Create button. A maximum of 31 redirection functions may be selected.
Create
Cancel

Figure 3.4.9 – Create Facility interface

An example of a Facility that was created is shown below.

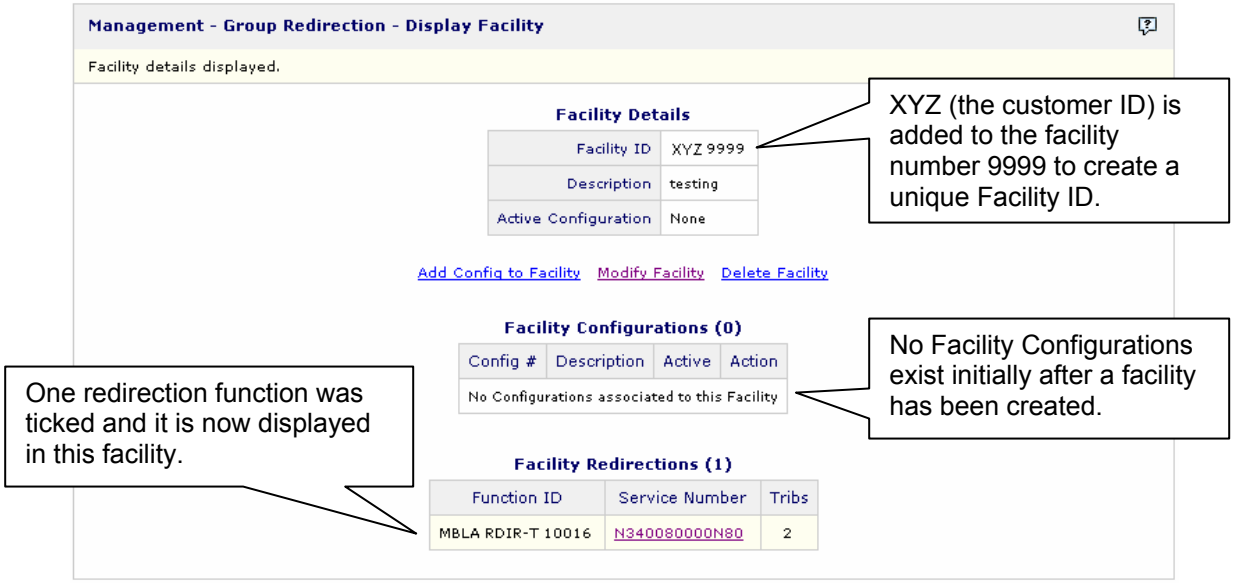


Figure 3.4.10- Facility Details are displayed after it has just been created.

The create facility function will prevent you from creating a facility if incorrect information has been entered. Below is a list of some of the error messages that can appear.

Field name	Data input	Error message displayed
Facility number	Non digit or zero	Facility number is invalid
Facility number	A number that already exists	Failed to create facility 'XYZ 12', facility already exists
Description	Empty field	Description is required
Tick Boxes	No redirection functions are selected.	Must assign from 1 to 31 redirection functions

Table 3.4.1 – Error messages that can be displayed when creating a new facility.

3.4.5. Display a Configuration

Description

This function allows you to display a configuration.

The configuration contains the set of redirection functions that belong to a facility and show which tributary service number is set to be the currently active tributary for each of the redirection functions if and when it is activated.

A facility is able to have from zero to 127 configurations.

Usage

Invoke the Group Redirection function. Select a facility to view the Display Facility function as shown in the screen below. In the Facility Configurations section, click on a configuration number to open the Display Configuration function (see Figure 3.4.12).

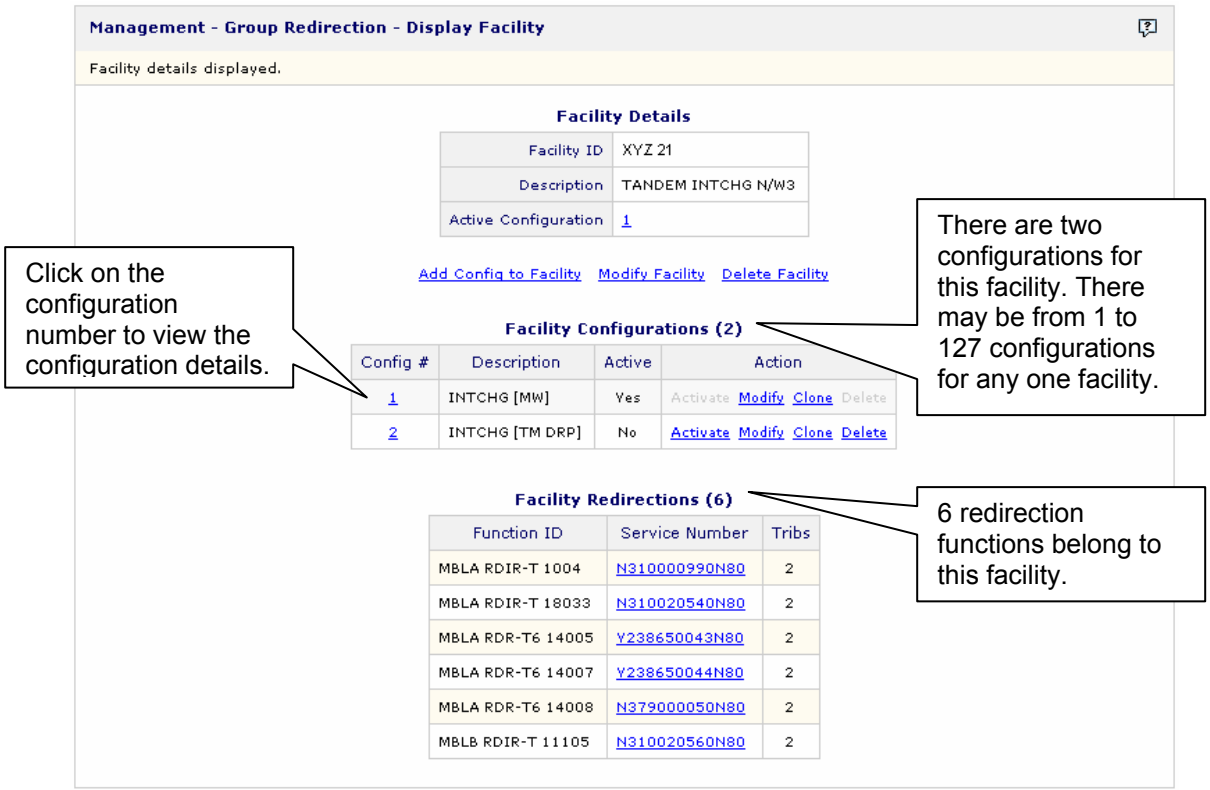

Management - Group Redirection - Display Facility
Facility details displayed.
Facility Details
Facility ID XYZ 21
Description TANDEM INTCHG N/W3
Active Configuration 1
Add Config to Facility Modify Facility Delete Facility
Facility Configurations (2)
Config # Description Active Action
1 INTCHG [MW] Yes Activate Modify Clone Delete
2 INTCHG [TM DRP] No Activate Modify Clone Delete
Facility Redirections (6)
Function ID Service Number Tribs
MBLA RDIR-T 1004 N310000990N80 2
MBLA RDIR-T 18033 N310020540N80 2
MBLA RDR-T6 14005 Y238650043N80 2
MBLA RDR-T6 14007 Y238650044N80 2
MBLA RDR-T6 14008 N379000050N80 2
MBLB RDIR-T 11105 N310020560N80 2
Click on the configuration number to view the configuration details.
There are two configurations for this facility. There may be from 1 to 127 configurations for any one facility.
6 redirection functions belong to this facility.

Figure 3.4.11 – Display Facility contains information about the facility configurations.

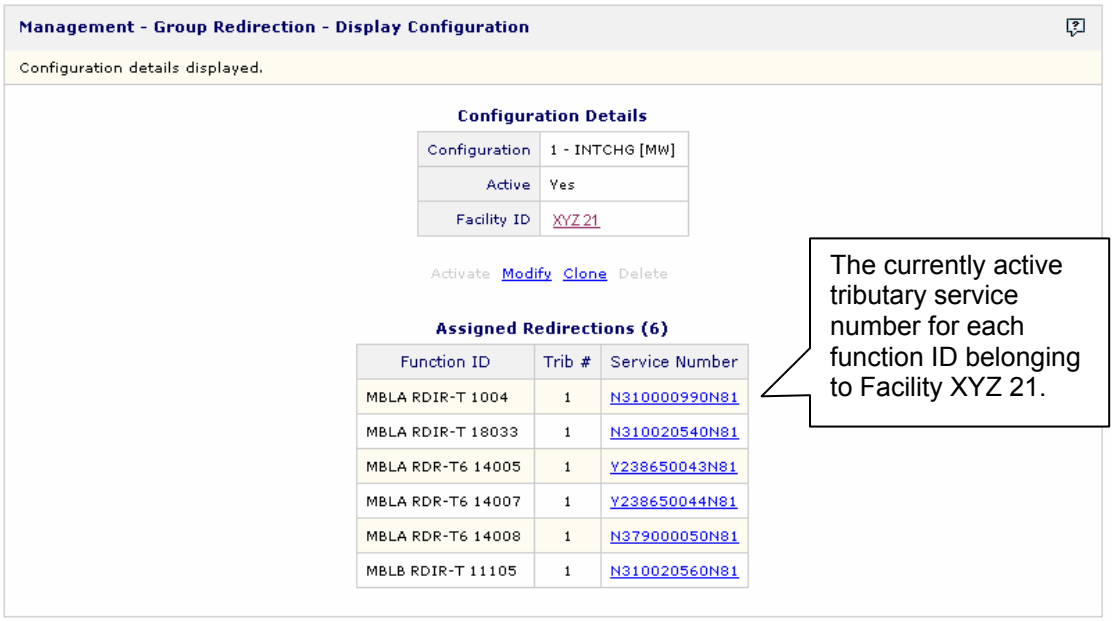

Management - Group Redirection - Display Configuration
Configuration details displayed.
Configuration Details
Configuration 1 - INTCHG [MW]
Active Yes
Facility ID XYZ 21
Activate Modify Clone Delete
Assigned Redirections (6)
Function ID Trib # Service Number
MBLA RDIR-T 1004 1 N310000990N81
MBLA RDIR-T 18033 1 N310020540N81
MBLA RDR-T6 14005 1 Y238650043N81
MBLA RDR-T6 14007 1 Y238650044N81
MBLA RDR-T6 14008 1 N379000050N81
MBLB RDIR-T 11105 1 N310020560N81
The currently active tributary service number for each function ID belonging to Facility XYZ 21.

Figure 3.4.12 - The Display Configuration details for Facility ID XYZ 21.

In a configuration, a redirection function does not have to have an active tributary such as 'MBLA RDIR-T 17016' shown in the figure below, but it may have an active tributary in another configuration.

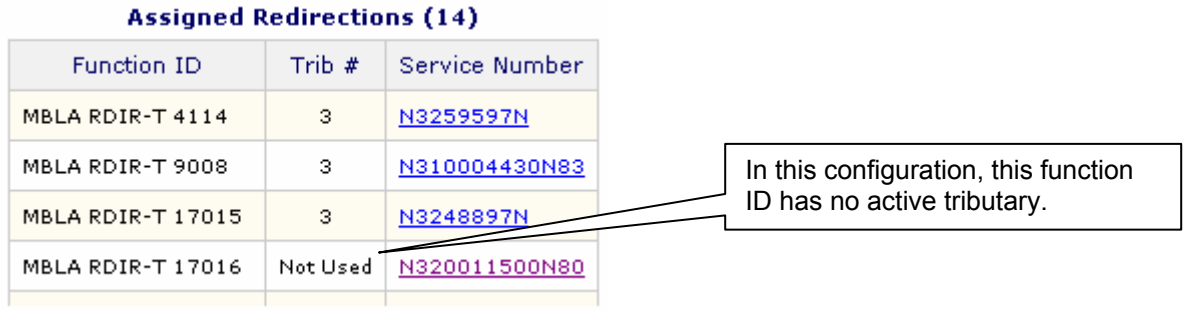

Assigned Redirections (14)
Function ID Trib # Service Number
MBLA RDIR-T 4114 3 N3259597N
MBLA RDIR-T 9008 3 N310004430N83
MBLA RDIR-T 17015 3 N3248897N
MBLA RDIR-T 17016 Not Used N320011500N80
In this configuration, this function ID has no active tributary.

Figure 3.4.13 – A configuration where a function ID has no tributary used.

Display Configuration Field Descriptions

Configuration

The number and description of the configuration.

Active

If the configuration is active it will display 'Yes' otherwise, 'No'.

Facility ID

The Facility ID that the configuration belongs to.

Assigned Redirections

Each line in the list contains the redirection function (that belongs to the facility), its active tributary number and the active tributary's service number.

3.4.6. Activate a Configuration

Description

This function allows you to activate or switch to another configuration in a facility.

The advantage of having more than one configuration is that all redirection functions can be simultaneously switched.

Usage

Invoke the Group Redirection function. Select a facility to display its details. The Display Facility page is displayed as shown below.

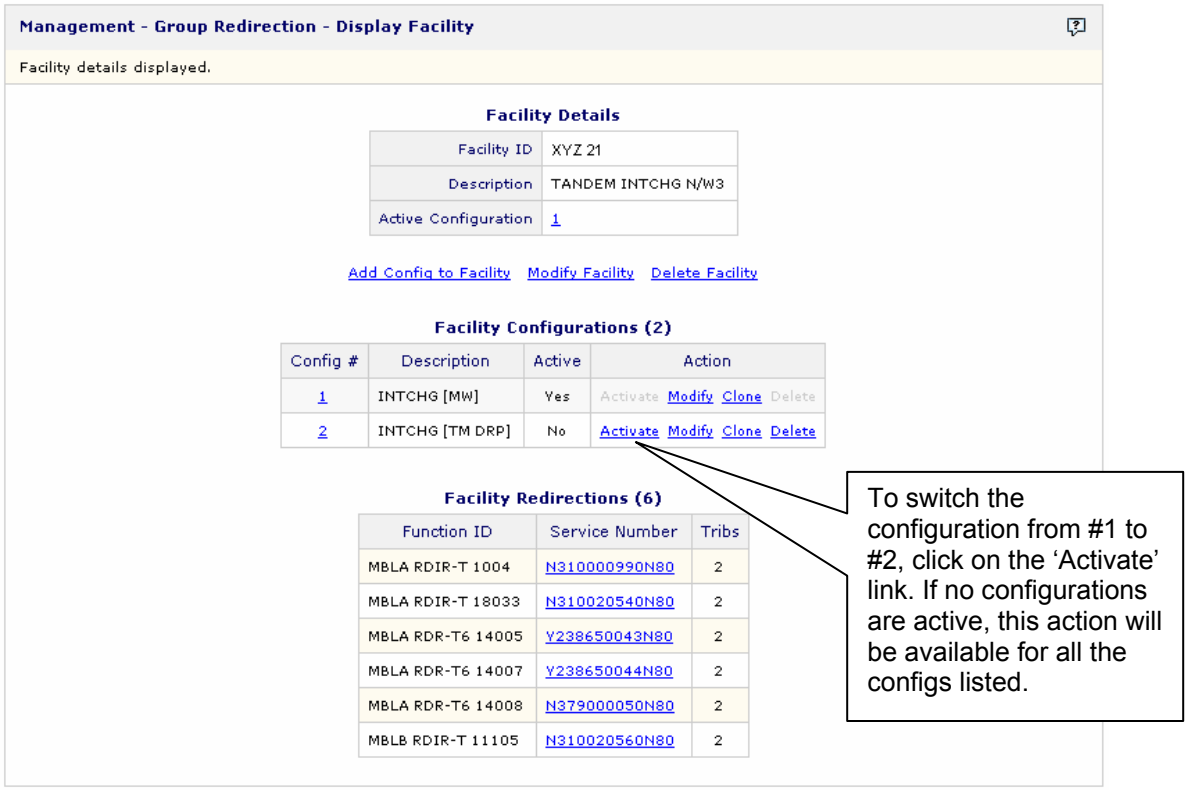

Management - Group Redirection - Display Facility
Facility details displayed.
Facility Details
Facility ID XYZ 21
Description TANDEM INTCHG N/W3
Active Configuration 1
Add Config to Facility Modify Facility Delete Facility
Facility Configurations (2)
Config # Description Active Action
1 INTCHG [MW] Yes Activate Modify Clone Delete
2 INTCHG [TM DRP] No Activate Modify Clone Delete
Facility Redirections (6)
Function ID Service Number Tribs
MBLA RDIR-T 1004 N310000990N80 2
MBLA RDIR-T 18033 N310020540N80 2
MBLA RDR-T6 14005 Y238650043N80 2
MBLA RDR-T6 14007 Y238650044N80 2
MBLA RDR-T6 14008 N379000050N80 2
MBLB RDIR-T 11105 N310020560N80 2
To switch the configuration from #1 to #2, click on the 'Activate' link. If no configurations are active, this action will be available for all the configs listed.

Figure 3.4.14 – Display Facility function for XYZ 21.

Once the 'Activate' link is clicked for a given configuration, a confirmation screen is displayed which shows the selected configuration details.

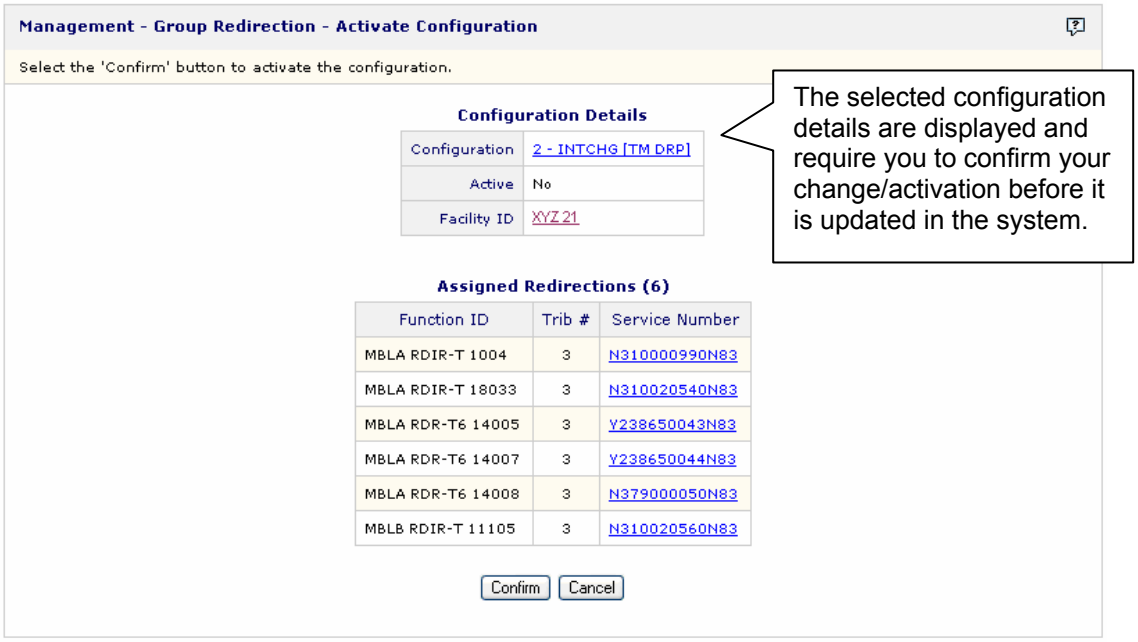

Management - Group Redirection - Activate Configuration
Select the 'Confirm' button to activate the configuration.
Configuration Details
Configuration 2 - INTCHG [TM DRP]
Active No
Facility ID XYZ 21
The selected configuration details are displayed and require you to confirm your change/activation before it is updated in the system.
Assigned Redirections (6)
Function ID Trib # Service Number
MBLA RDIR-T 1004 3 N310000990N83
MBLA RDIR-T 18033 3 N310020540N83
MBLA RDR-T6 14005 3 Y238650043N83
MBLA RDR-T6 14007 3 Y238650044N83
MBLA RDR-T6 14008 3 N379000050N83
MBLB RDIR-T 11105 3 N310020560N83
Confirm
Cancel

Figure 3.4.15 – Confirmation screen when switching or activating a configuration.

After the confirmation button is clicked, it becomes the active configuration.

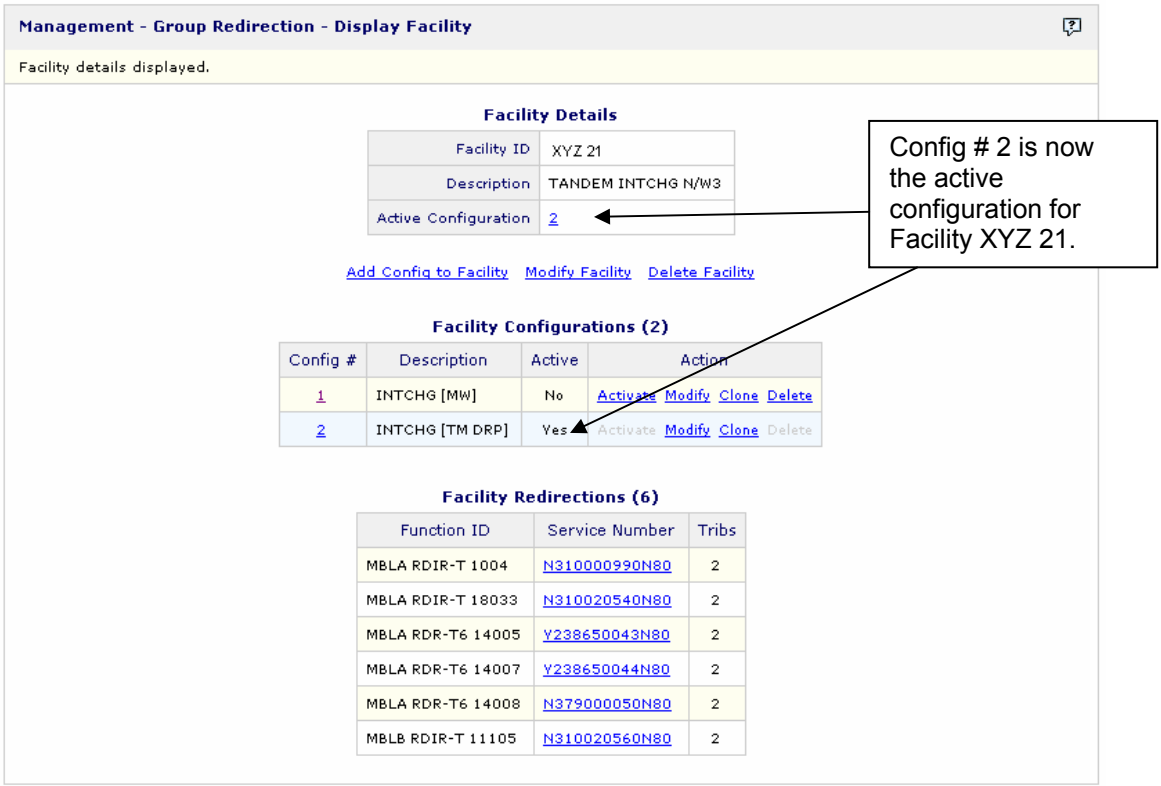

Management - Group Redirection - Display Facility
Facility details displayed.
Facility Details
Facility ID XYZ 21
Description TANDEM INTCHG N/W3
Active Configuration 2
Config # 2 is now the active configuration for Facility XYZ 21.
Add Config to Facility
Modify Facility
Delete Facility
Facility Configurations (2)
Config # Description Active Action
1 INTCHG [MW] No Activate Modify Clone Delete
2 INTCHG [TM DRP] Yes Activate Modify Clone Delete
Facility Redirections (6)
Function ID Service Number Tribs
MBLA RDIR-T 1004 N310000990N80 2
MBLA RDIR-T 18033 N310020540N80 2
MBLA RDR-T6 14005 Y238650043N80 2
MBLA RDR-T6 14007 Y238650044N80 2
MBLA RDR-T6 14008 N379000050N80 2
MBLB RDIR-T 11105 N310020560N80 2

Figure 3.4.16 – The newly selected configuration is now displayed in the Facility Details.

3.4.7. Modify Configuration

Description

This function allows you to modify an existing configuration in a facility, that is, change the tributary service number for any given redirection function.

All of the configurations, including the active one, can be modified.

Usage

Invoke the Group Redirection function. Select a facility to display its details (see Figure 3.4.14). In the facility configurations list, click on the 'Modify' button corresponding to the config # you would like to modify.

The following screen will appear.

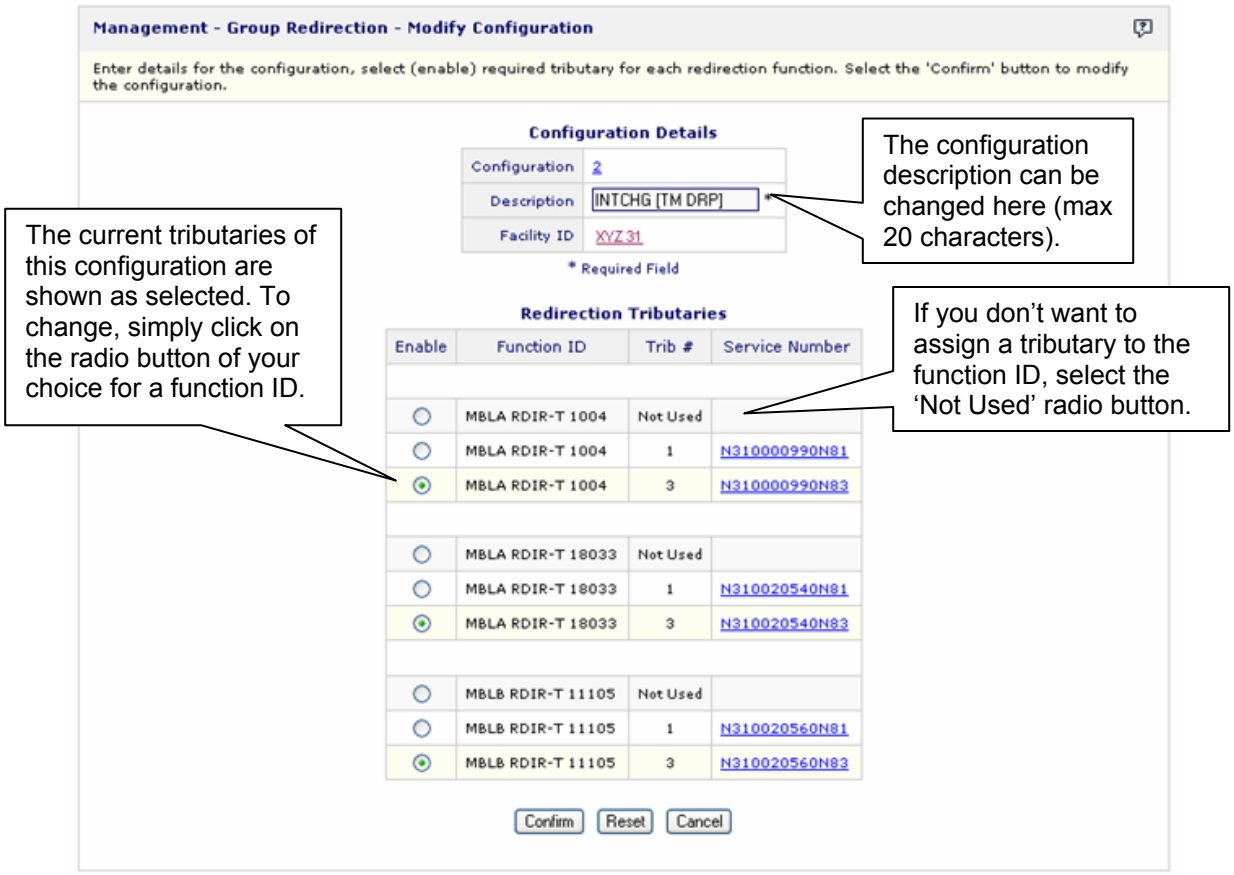

Management - Group Redirection - Modify Configuration
Enter details for the configuration, select (enable) required tributary for each redirection function. Select the 'Confirm' button to modify the configuration.
Configuration Details
Configuration 2
Description INTCHG [TM DRP]
Facility ID XYZ 31
* Required Field
Redirection Tributaries
Enable Function ID Trib # Service Number
MBLA RDIR-T 1004 Not Used
MBLA RDIR-T 1004 1 N310000990N81
MBLA RDIR-T 1004 3 N310000990N83
MBLA RDIR-T 18033 Not Used
MBLA RDIR-T 18033 1 N310020540N81
MBLA RDIR-T 18033 3 N310020540N83
MBLB RDIR-T 11105 Not Used
MBLB RDIR-T 11105 1 N310020560N81
MBLB RDIR-T 11105 3 N310020560N83
Confirm Reset Cancel
The configuration description can be changed here (max 20 characters).
The current tributaries of this configuration are shown as selected. To change, simply click on the radio button of your choice for a function ID.
If you don't want to assign a tributary to the function ID, select the 'Not Used' radio button.

Figure 3.4.17 – Modify Configuration

If you haven't confirmed your changes the *Reset* button will return any changes to its original details.

Click on the *Confirm* button to save the new configuration details.

The system responds by displaying the modifications in the Display Configuration page.

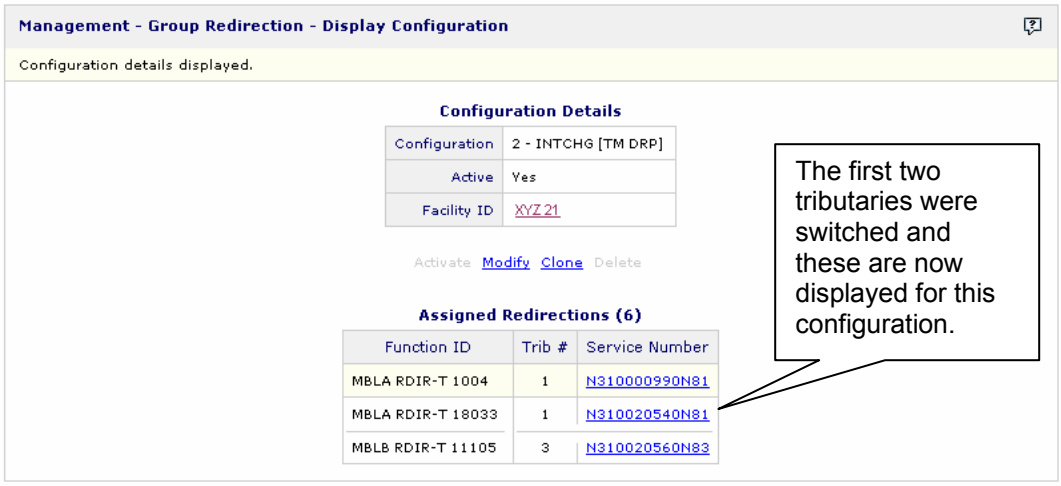


Figure 3.4.18 – Display Configuration after the confirm button is clicked.

3.4.8. Delete a Configuration

Description

This function allows you to delete a configuration that is not active from a facility.

Usage

Invoke the Group Redirection function. Select a facility to display its details (see Figure 3.4.14). In the facility configurations list, click on the 'Delete' button corresponding to the config # you would like to delete (see Figure 3.4.16).

The system responds by presenting details of the configuration. If you are sure you want to delete the configuration, click on the *Confirm* button else click *Cancel.*

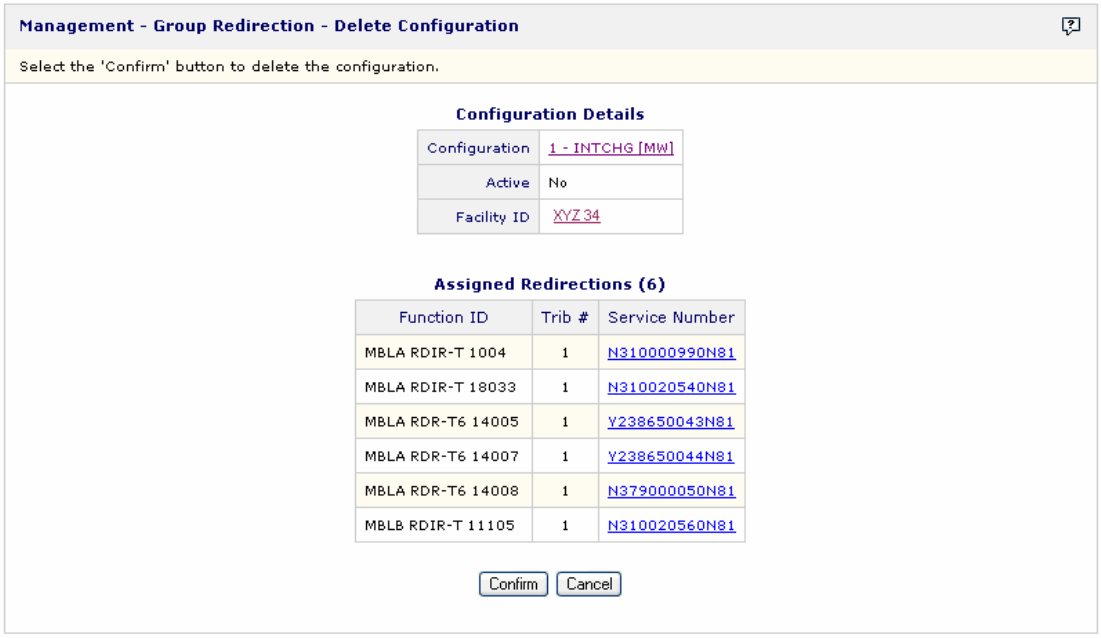


Figure 3.4.19 – Delete Configuration confirmation page.

When the *Confirm* button is clicked, the Display Facility page is displayed showing the new details.

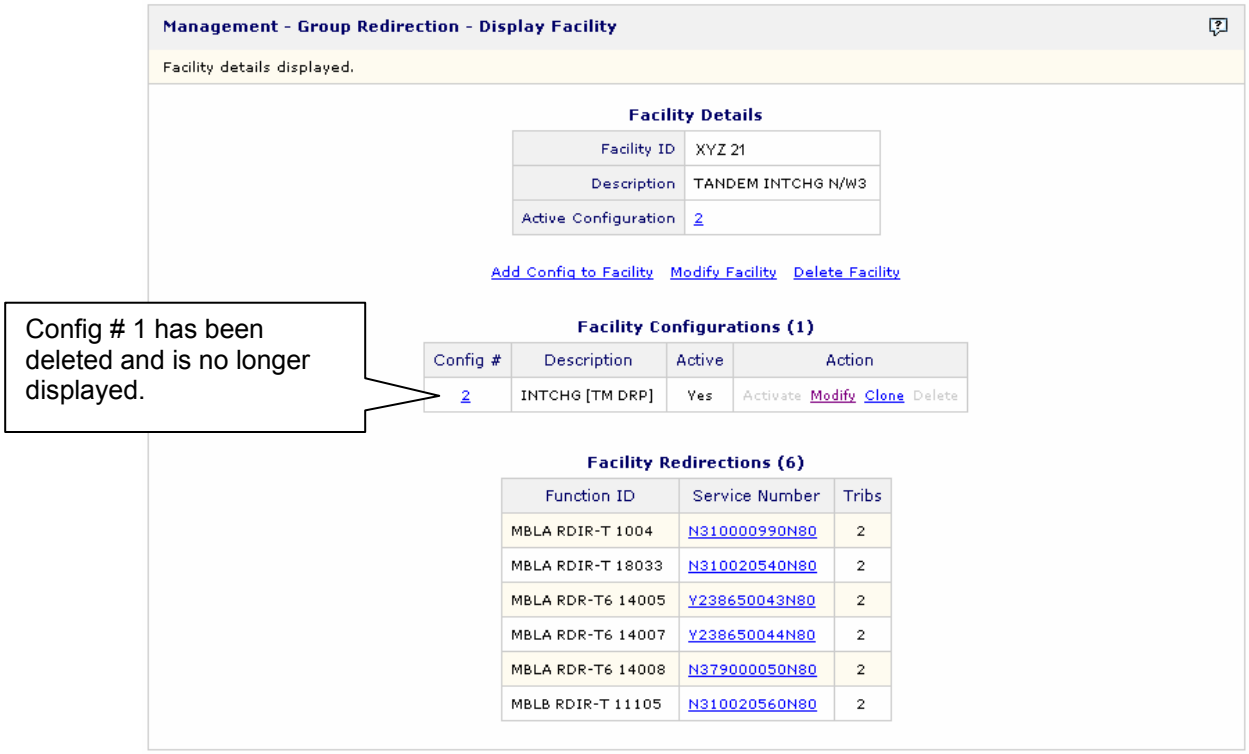


Figure 3.4.20 – Facility Details with the updated information.

3.4.9. Create a Configuration

Description

This function allows you to create a configuration for a facility. A configuration specifies the tributaries to which redirection functions will switch to when the configuration is activated.

Only the assigned redirections can have a configuration. To add redirection functions to a facility, refer to section 3.4.2, Modify Facility Details.

Usage

Invoke the Group Redirection function. Click on a Facility to view the Display Facility page and then click on 'Add Config to Facility' (see Figure 3.4.16).

The 'Create Configuration' page will be displayed as shown below.

The facility ID is displayed in the configuration details. Enter a new configuration number (range 1-127) and a description. Click on the radio buttons to switch a tributary for each redirection function.

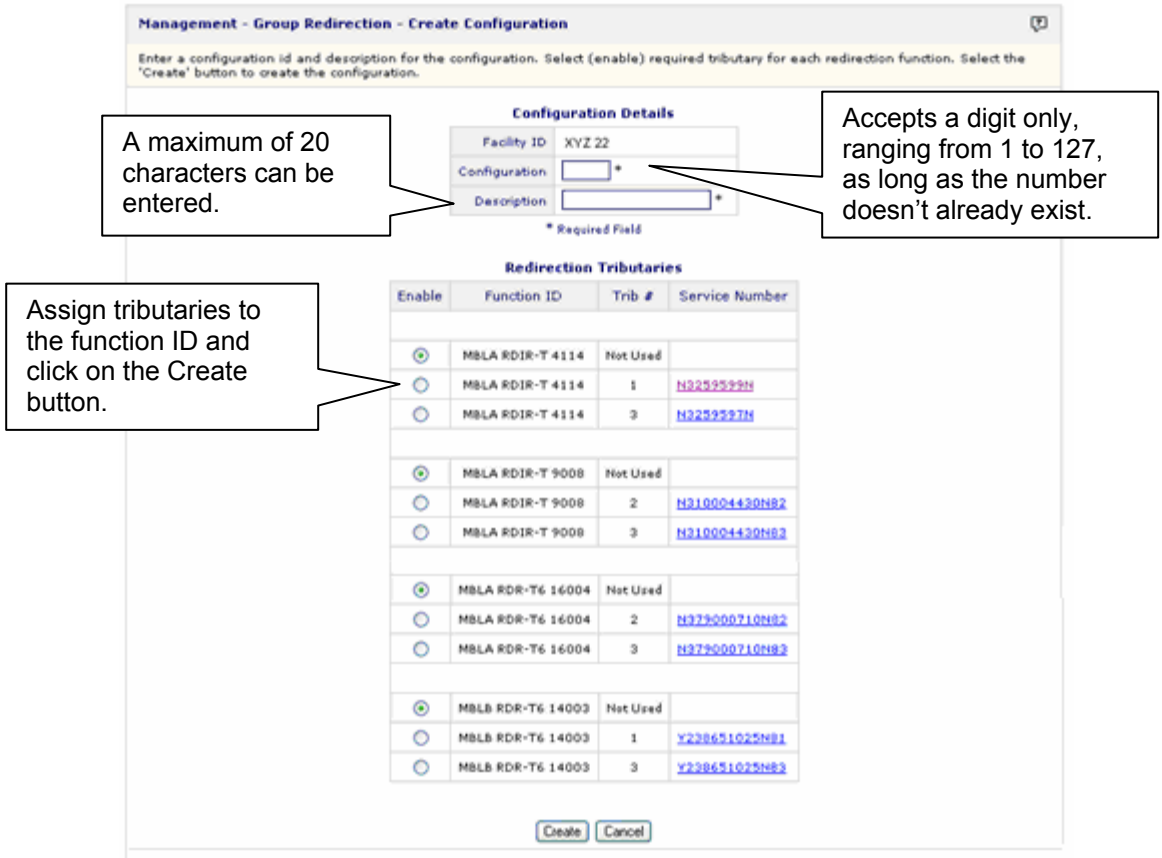

Management - Group Redirection - Create Configuration
Enter a configuration id and description for the configuration. Select (enable) required tributary for each redirection function. Select the 'Create' button to create the configuration.
Configuration Details
Facility ID XYZ 22
Configuration *
Description *
* Required Field
A maximum of 20 characters can be entered.
Accepts a digit only, ranging from 1 to 127, as long as the number doesn't already exist.
Assign tributaries to the function ID and click on the Create button.
Redirection Tributaries
Enable
Function ID
Trib #
Service Number
MBLA RDIR-T 4114 Not Used
MBLA RDIR-T 4114 1 N3259599N
MBLA RDIR-T 4114 3 N3259597N
MBLA RDIR-T 9008 Not Used
MBLA RDIR-T 9008 2 N31000430N82
MBLA RDIR-T 9008 3 N31000430N83
MBLA RDR-T6 16004 Not Used
MBLA RDR-T6 16004 2 N37900710N82
MBLA RDR-T6 16004 3 N37900710N83
MBLB RDR-T6 14003 Not Used
MBLB RDR-T6 14003 1 Y238651025N81
MBLB RDR-T6 14003 3 Y238651025N83
Create
Cancel

Figure 3.4.21 – Create Configuration function.

When the create button is clicked the new configuration details are displayed as shown in the next figure.

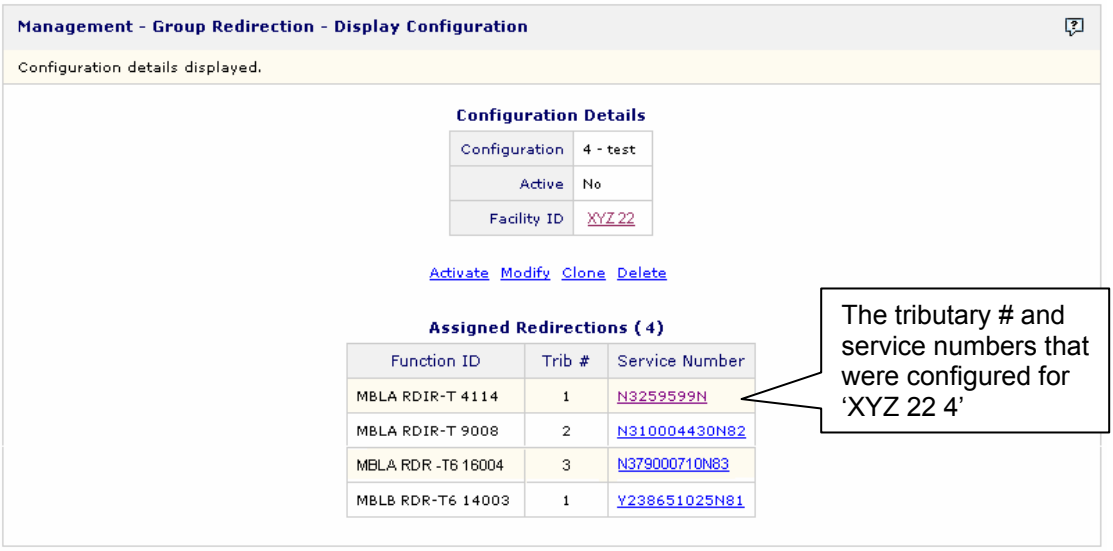

Management - Group Redirection - Display Configuration
Configuration details displayed.
Configuration Details
Configuration 4 - test
Active No
Facility ID XYZ 22
Activate Modify Clone Delete
Assigned Redirections (4)
Function ID Trib # Service Number
MBLA RDIR-T 4114 1 N3259599N
MBLA RDIR-T 9008 2 N310004430N82
MBLA RDR -T6 16004 3 N379000710N83
MBLB RDR-T6 14003 1 Y238651025N81
The tributary # and service numbers that were configured for 'XYZ 22 4'

Figure 3.4.22 – The new configuration details are displayed.

The create configuration function will prevent you from creating a configuration if incorrect information has been entered. Below is a list of some of the error messages that can appear.

Field name	Data input	Error message displayed
Configuration	Non digit or zero	Invalid number format
Configuration	A number that already exists	Failed to create configuration 'XYZ 22 2', configuration already exists
Configuration	A number > 127 or number <= 0	Out of range[1,127]
Description	Empty field	Description is required

Table 3.4.2 - Error messages that can be displayed when creating a new configuration.

3.4.10. Clone a Configuration

Description

This function allows you to create a new (identical) configuration from one that already exists. This is useful when you want to create a new configuration that is similar to an existing one, that is, minor changes can be made to the 'copy' at the time the new configuration is being created to save you time.

Usage

Invoke the Group Redirection function. Select a facility, the Facility Details screen should appear (as in Figure 3.4.20). Click on the 'Clone' link corresponding to the configuration you wish to clone.

The Clone Configuration function screen will display as shown below.

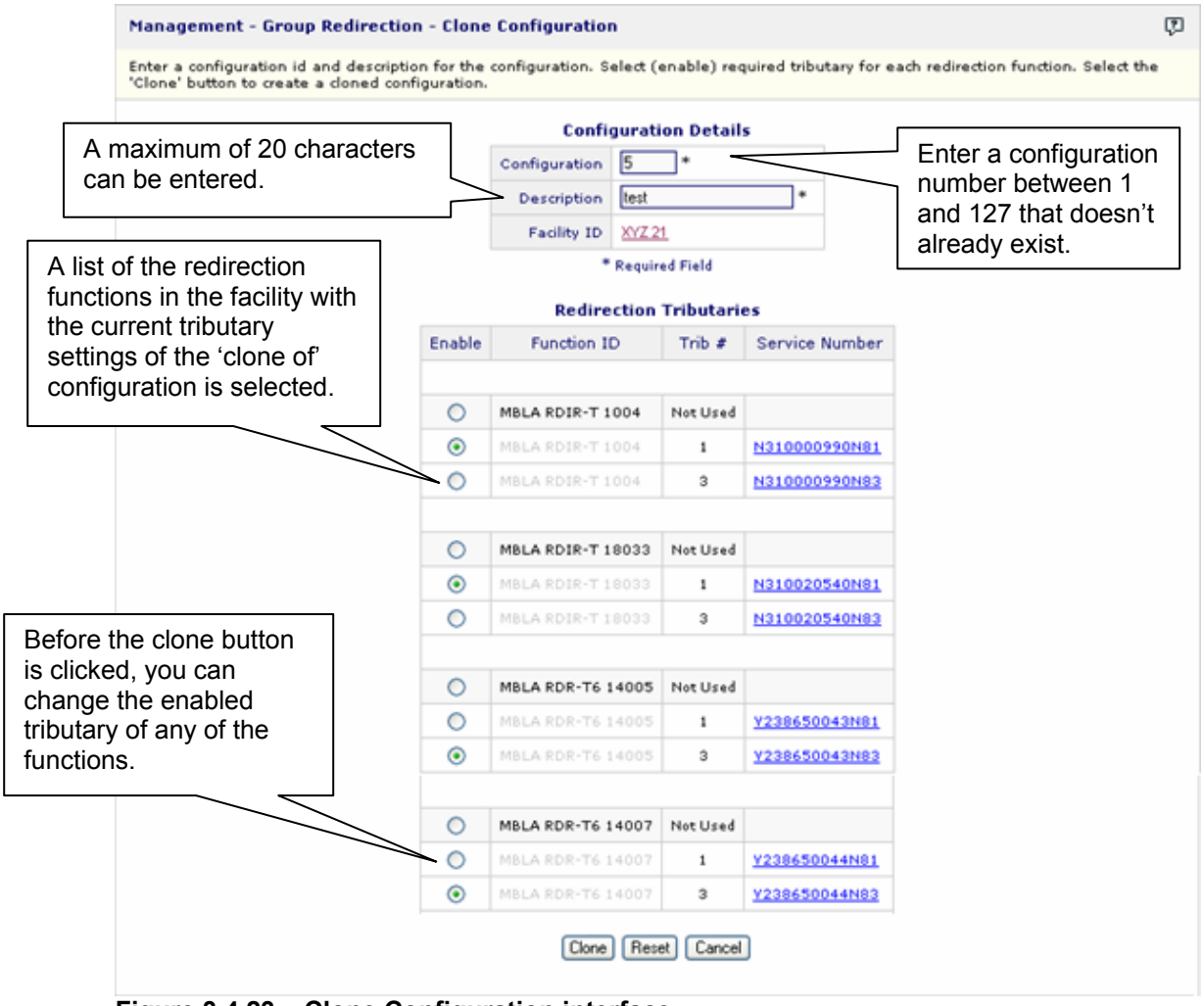

Management - Group Redirection - Clone Configuration
Enter a configuration id and description for the configuration. Select (enable) required tributary for each redirection function. Select the 'Clone' button to create a cloned configuration.
A maximum of 20 characters can be entered.
Configuration Details
Configuration 5 *
Description test *
Facility ID XYZ 21
* Required Field
Enter a configuration number between 1 and 127 that doesn't already exist.
A list of the redirection functions in the facility with the current tributary settings of the 'clone of' configuration is selected.
Redirection Tributaries
Enable
Function ID
Trib #
Service Number
MBLA RDIR-T 1004 Not Used
MBLA RDIR-T 1004 1 N310000990N81
MBLA RDIR-T 1004 3 N310000990N83
MBLA RDIR-T 18033 Not Used
MBLA RDIR-T 18033 1 N310020540N81
MBLA RDIR-T 18033 3 N310020540N83
MBLA RDR-T6 14005 Not Used
MBLA RDR-T6 14005 1 Y238650043N81
MBLA RDR-T6 14005 3 Y238650043N83
MBLA RDR-T6 14007 Not Used
MBLA RDR-T6 14007 1 Y238650044N81
MBLA RDR-T6 14007 3 Y238650044N83
Before the clone button is clicked, you can change the enabled tributary of any of the functions.
Clone
Reset
Cancel

Figure 3.4.23 – Clone Configuration interface.

When the clone button is clicked the newly created configuration details are displayed.

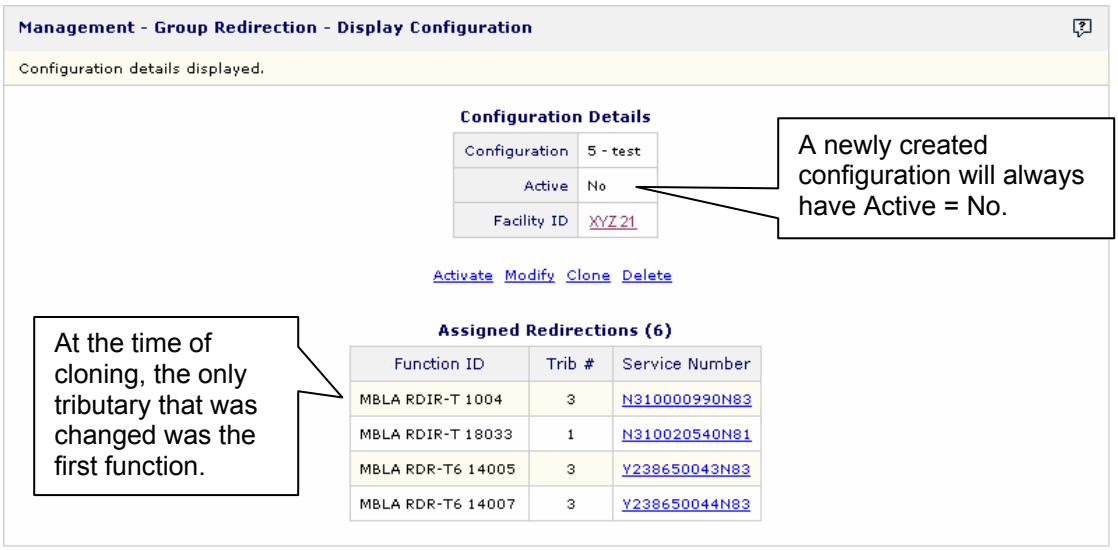

Management - Group Redirection - Display Configuration
Configuration details displayed.
Configuration Details
Configuration 5 - test
Active No
Facility ID XYZ 21
A newly created configuration will always have Active = No.
Activate Modify Clone Delete
Assigned Redirections (6)
Function ID Trib # Service Number
MBLA RDIR-T 1004 3 N310000990N83
MBLA RDIR-T 18033 1 N310020540N81
MBLA RDR-T6 14005 3 Y238650043N83
MBLA RDR-T6 14007 3 Y238650044N83
At the time of cloning, the only tributary that was changed was the first function.

Figure 3.4.24 – Details of the newly cloned configuration.

3.4.11. Display Service Description

Description

This function allows you to display and / or modify a service's description.

Usage

Click on 'Service Description' located on the navigation bar on the left side of the screen.

The following page will be displayed.

Management - Service Description
Enter the service number to display/modify and select the 'Continue' button.
Service Description
Service Number
N340070000N80
Continue
Enter a service number and click 'Continue'.

Figure 3.4.25 – Service Description interface.

The system responds by displaying the current service description. If you have not previously set up a description, this field will be blank.

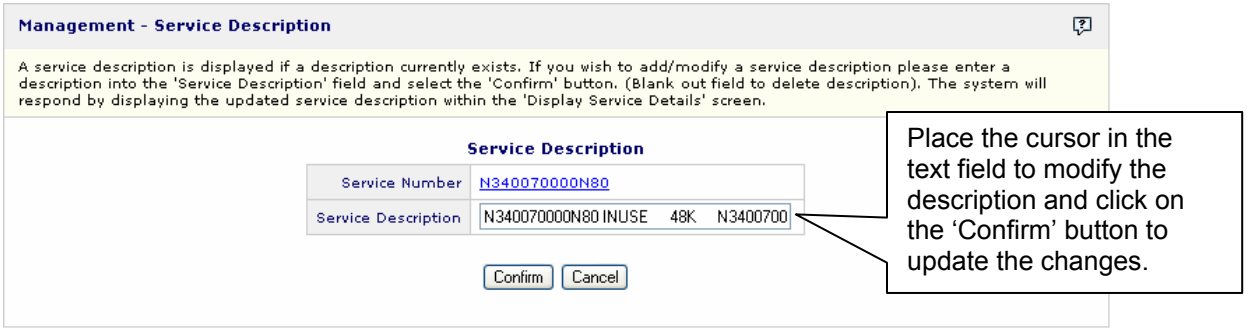

Management - Service Description
A service description is displayed if a description currently exists. If you wish to add/modify a service description please enter a description into the 'Service Description' field and select the 'Confirm' button. (Blank out field to delete description). The system will respond by displaying the updated service description within the 'Display Service Details' screen.
Service Description
Service Number
N340070000N80
Service Description
N340070000N80 INUSE 48K N3400700
Confirm
Cancel
Place the cursor in the text field to modify the description and click on the 'Confirm' button to update the changes.

Figure 3.4.26 – Service Description is displayed and allows modification.

Field Descriptions

Service Number

The service number of the description you want to modify.

Description

A maximum 65 character description of your service.

4. Service Testing

4.1. Overview

iCAF Service Testing uses facilities within Telstra network equipment for the diagnosis of equipment and network faults.

By using ***i***CAF service test functions, you are able to perform elementary tests on your INUSE services (only) before contacting Telstra.

Continuity Test

The 'Continuity Test' function provides a simple and fast means of performing a confidence test on a service. The test attempts to install a loop on the selected service end(s).

MJE Tributary Scan

The 'MJE Tributary Scan' function can assist in identifying a faulty tributary after MJE contention has been detected or is suspected. The tributary scan function, when started, will through connect each tributary one at a time whilst, at the same time, monitoring the main channel. If a faulty tributary is detected you will be notified.

Inject and Analyse

The 'Inject and Analyse' function is a disruptive test that installs loopbacks at the end points of the service, injects a test pattern and analyses the returning test pattern.

Channel Monitor

The 'Channel Monitor' function is a non-disruptive test that monitors the current state of the service at the Test Access Point (TAP). It shows whether the service is carrying customer data or network commands. The test presents any change of state to you if and when it occurs.

Test Attach

The 'Test Attach' function attaches you to the last test run. (within last 6 hours).

4.2. Continuity Test

Description

The 'Continuity Test' function provides a simple and fast means of performing a confidence test on a service. The test attempts to install a loop on the selected service end(s).

Usage

Click on ‘Continuity Test’ located on the navigation bar on the left side of the screen or click on ‘Testing’ in the menu bar located at the top of the page to open up the main menu screen where the link ‘Continuity Test’ is displayed.

The following screen will be displayed in a new browser window.

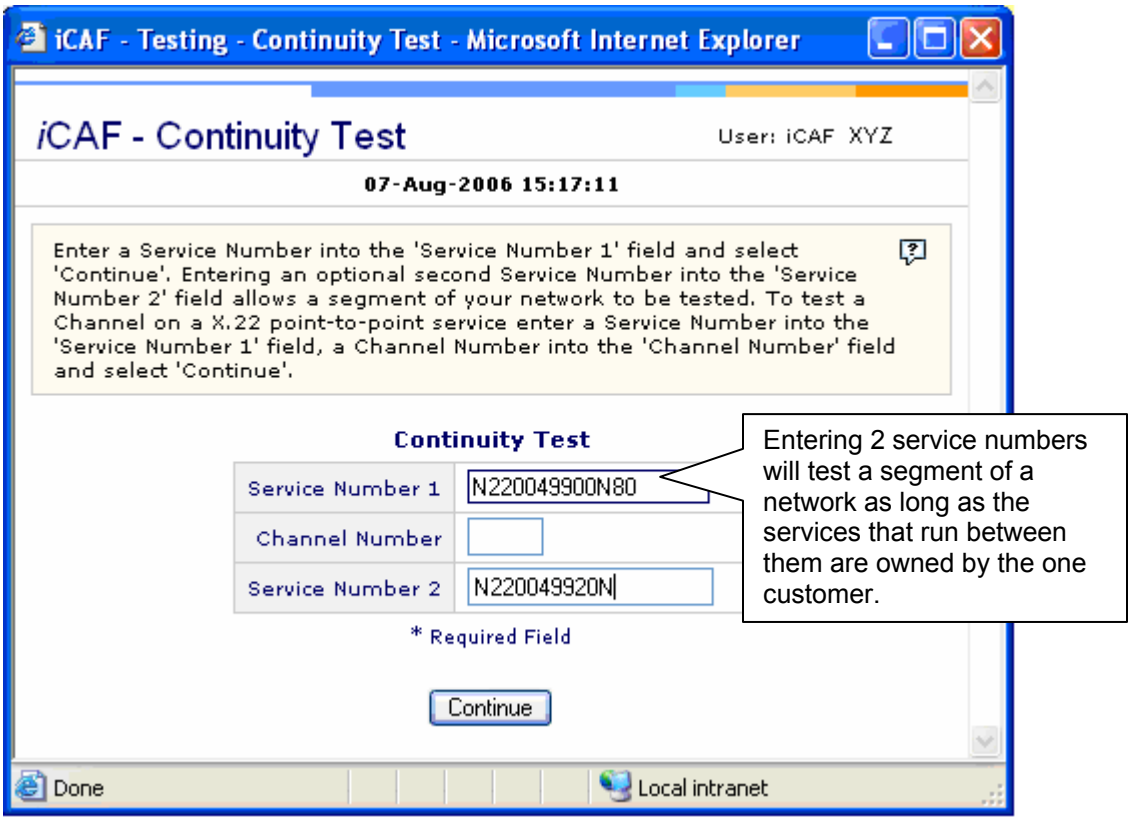

iCAF - Testing - Continuity Test - Microsoft Internet Explorer
iCAF - Continuity Test
User: iCAF XYZ
07-Aug-2006 15:17:11
Enter a Service Number into the 'Service Number 1' field and select 'Continue'. Entering an optional second Service Number into the 'Service Number 2' field allows a segment of your network to be tested. To test a Channel on a X.22 point-to-point service enter a Service Number into the 'Service Number 1' field, a Channel Number into the 'Channel Number' field and select 'Continue'.
Continuity Test
Service Number 1
N220049900N80
Channel Number
Service Number 2
N220049920N
* Required Field
Continue
Done
Local intranet
Entering 2 service numbers will test a segment of a network as long as the services that run between them are owned by the one customer.

Figure 4.2.1 – Continuity Test interface with service numbers as input data.

You can enter in a single service number or two service numbers or a service number and channel number.

Single service number entry should identify a point-to-point service or a component of a network service (e.g. just a tail).

For dual service number entry, both services must be network service numbers. The segment between and including the two components are considered for testing. The order in which the service numbers are presented does not matter.

Entering two service numbers may be necessary to enforce selection of both sides of an MJE function.

Enter a service number/channel number combination when you want to test a specific channel on a netplex service.

An example of a successful continuity test.

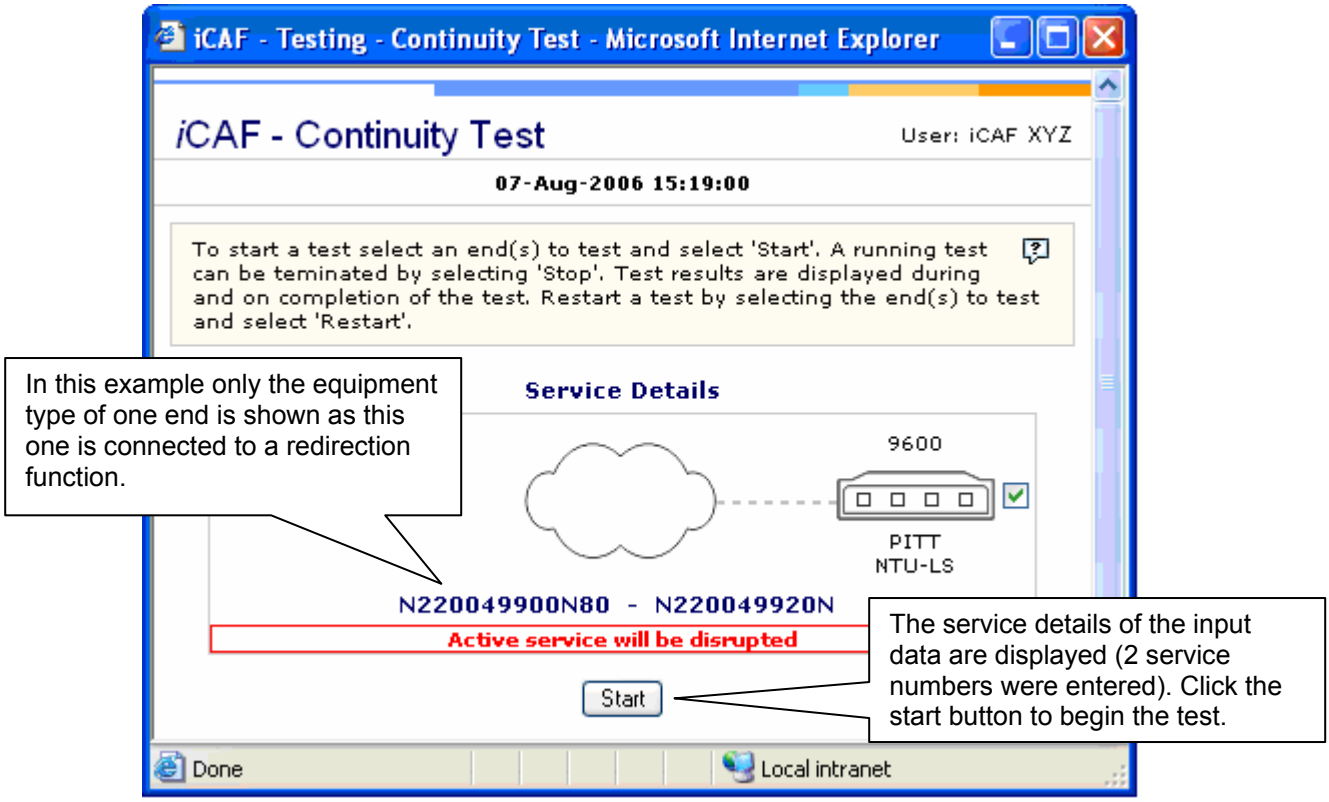

iCAF - Testing - Continuity Test - Microsoft Internet Explorer
iCAF - Continuity Test
User: iCAF XYZ
07-Aug-2006 15:19:00
To start a test select an end(s) to test and select 'Start'. A running test can be teminated by selecting 'Stop'. Test results are displayed during and on completion of the test. Restart a test by selecting the end(s) to test and select 'Restart'.
Service Details
9600
PITT
NTU-LS
N220049900N80 - N220049920N
Active service will be disrupted
Start
Done
Local intranet
In this example only the equipment type of one end is shown as this one is connected to a redirection function.
The service details of the input data are displayed (2 service numbers were entered). Click the start button to begin the test.

Figure 4.2.2 – Continuity Test input data is displayed ready for starting.

Before the test has started the input data is shown in a pseudo graphic style, which helps to verify that you have selected the correct service or service segment to be tested. At this stage you have to select / deselect the tick boxes to specify the end of the service to be tested. By default both ends will be selected. A note is displayed that the test will disrupt the service.

Re-invoke the function if this is not the service you would like to test.

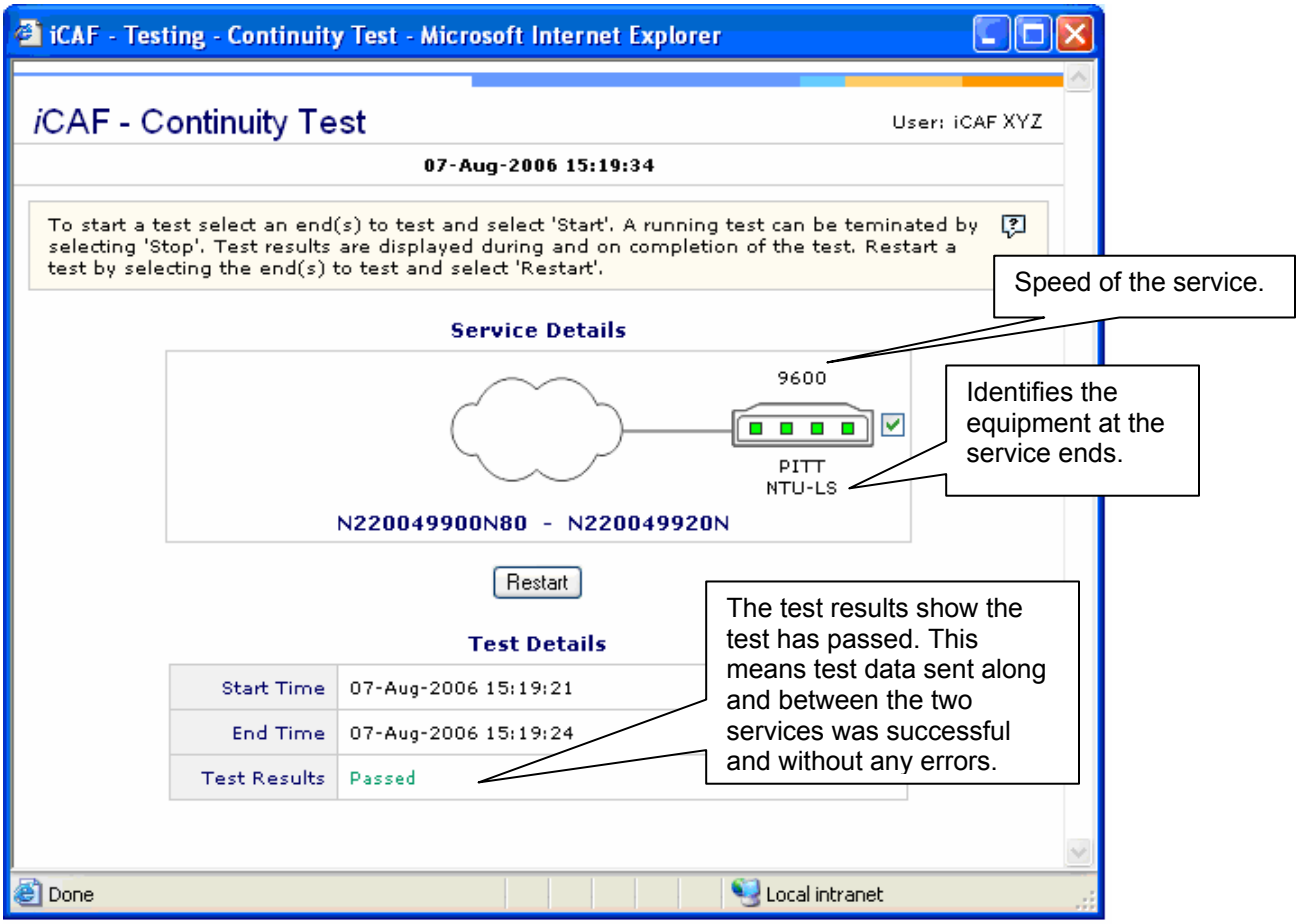

iCAF - Testing - Continuity Test - Microsoft Internet Explorer
iCAF - Continuity Test
User: iCAF XYZ
07-Aug-2006 15:19:34
To start a test select an end(s) to test and select 'Start'. A running test can be teminated by selecting 'Stop'. Test results are displayed during and on completion of the test. Restart a test by selecting the end(s) to test and select 'Restart'.
Service Details
9600
PITT
NTU-LS
N220049900N80 - N220049920N
Restart
Test Details
Start Time
07-Aug-2006 15:19:21
End Time
07-Aug-2006 15:19:24
Test Results
Passed
Done
Local intranet
Speed of the service.
Identifies the equipment at the service ends.
The test results show the test has passed. This means test data sent along and between the two services was successful and without any errors.

Figure 4.2.3 – Continuity Test results.

An example of a continuity test that failed.

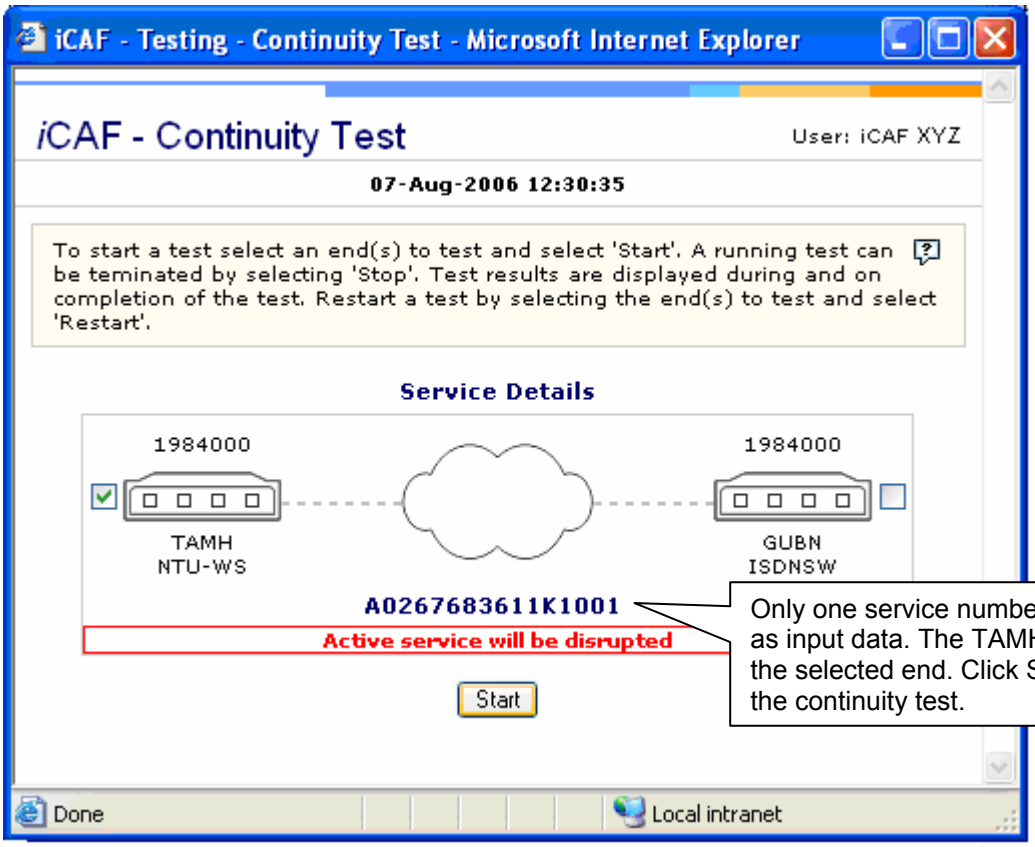

iCAF - Testing - Continuity Test - Microsoft Internet Explorer
iCAF - Continuity Test
User: iCAF XYZ
07-Aug-2006 12:30:35
To start a test select an end(s) to test and select 'Start'. A running test can be teminated by selecting 'Stop'. Test results are displayed during and on completion of the test. Restart a test by selecting the end(s) to test and select 'Restart'.
Service Details
1984000
1984000
TAMH
NTU-WS
GUBN
ISDNSW
A0267683611K1001
Active service will be disrupted
Start
Only one service number was entered as input data. The TAMH NTU – WS is the selected end. Click Start to begin the continuity test.
Done
Local intranet

Figure 4.2.4 – Continuity Test for one service number.

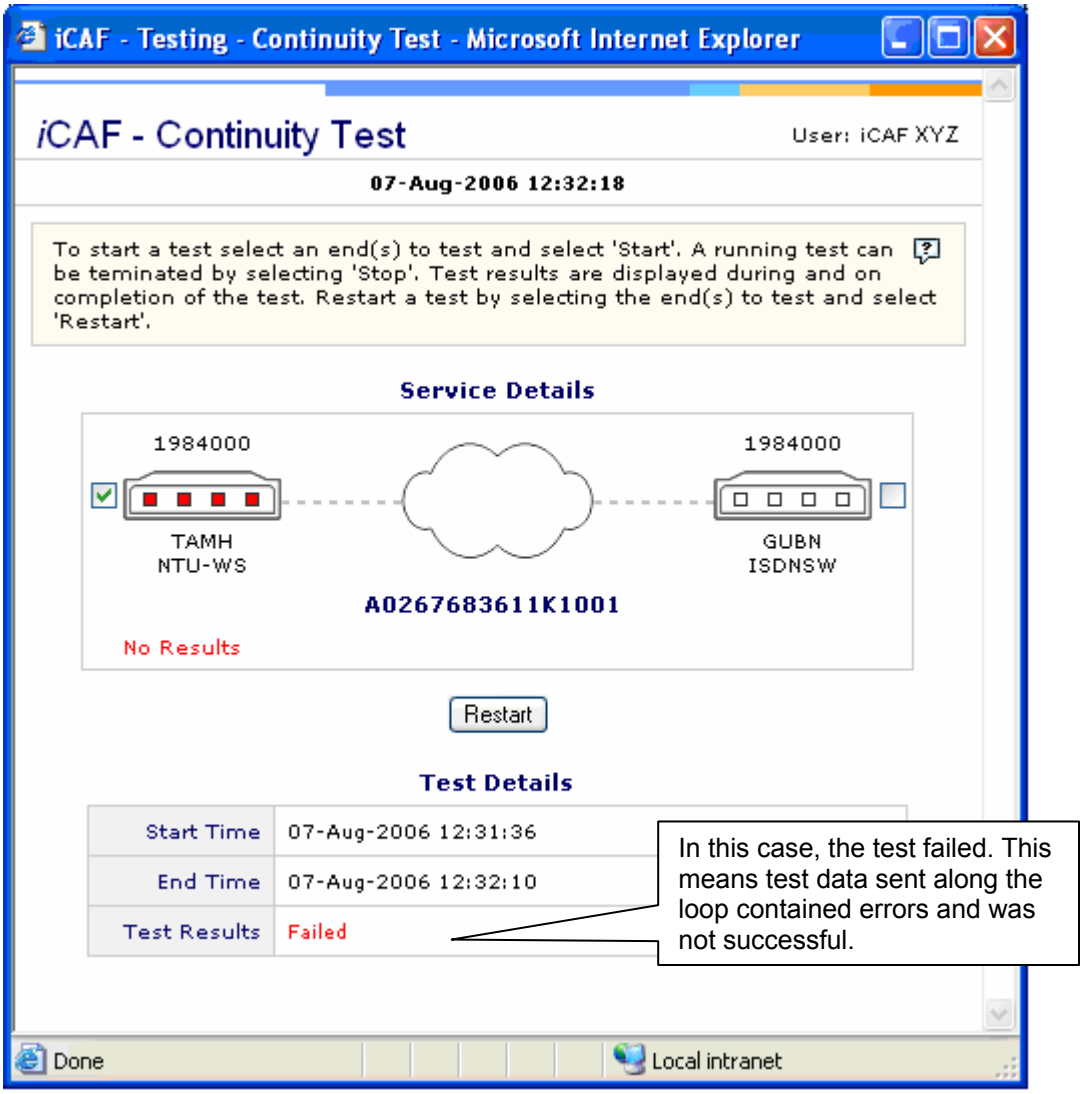

iCAF - Testing - Continuity Test - Microsoft Internet Explorer
iCAF - Continuity Test
User: iCAF XYZ
07-Aug-2006 12:32:18
To start a test select an end(s) to test and select 'Start'. A running test can be teminated by selecting 'Stop'. Test results are displayed during and on completion of the test. Restart a test by selecting the end(s) to test and select 'Restart'.
Service Details
1984000
1984000
TAMH
NTU-WS
GUBN
ISDNSW
A0267683611K1001
No Results
Restart
Test Details
Start Time
07-Aug-2006 12:31:36
End Time
07-Aug-2006 12:32:10
Test Results
Failed
In this case, the test failed. This means test data sent along the loop contained errors and was not successful.
Done
Local intranet

Figure 4.2.5 – Continuity Test results when it has failed.

Continuity tests can be stopped before completion.

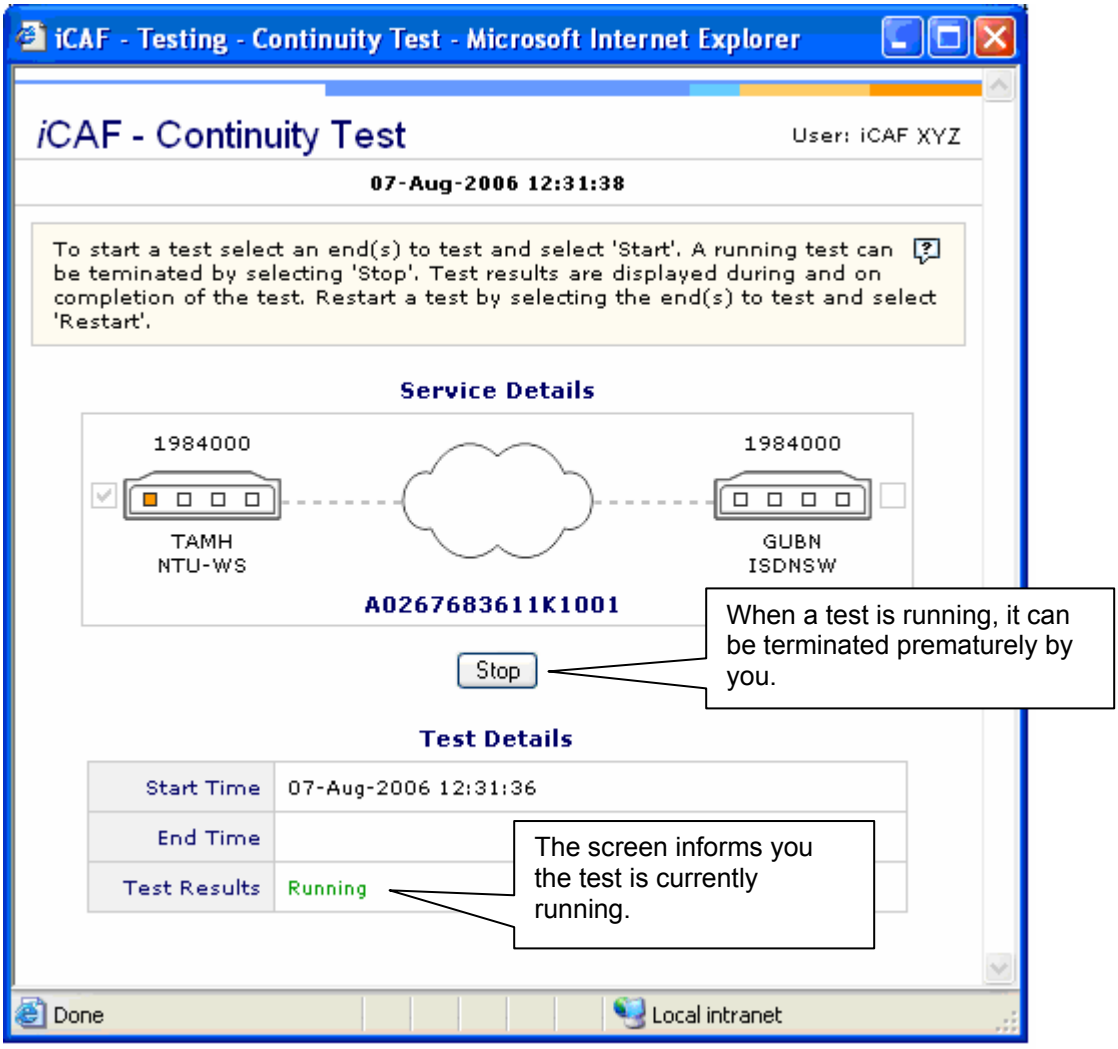

iCAF - Testing - Continuity Test - Microsoft Internet Explorer
iCAF - Continuity Test
User: iCAF XYZ
07-Aug-2006 12:31:38
To start a test select an end(s) to test and select 'Start'. A running test can be teminated by selecting 'Stop'. Test results are displayed during and on completion of the test. Restart a test by selecting the end(s) to test and select 'Restart'.
Service Details
1984000
1984000
TAMH
NTU-WS
GUBN
ISDNSW
A0267683611K1001
Stop
When a test is running, it can be terminated prematurely by you.
Test Details
Start Time
07-Aug-2006 12:31:36
End Time
Test Results
Running
The screen informs you the test is currently running.
Done
Local intranet

Figure 4.2.6 – Continuity Test screen in running mode.

Continuity test – error messages.

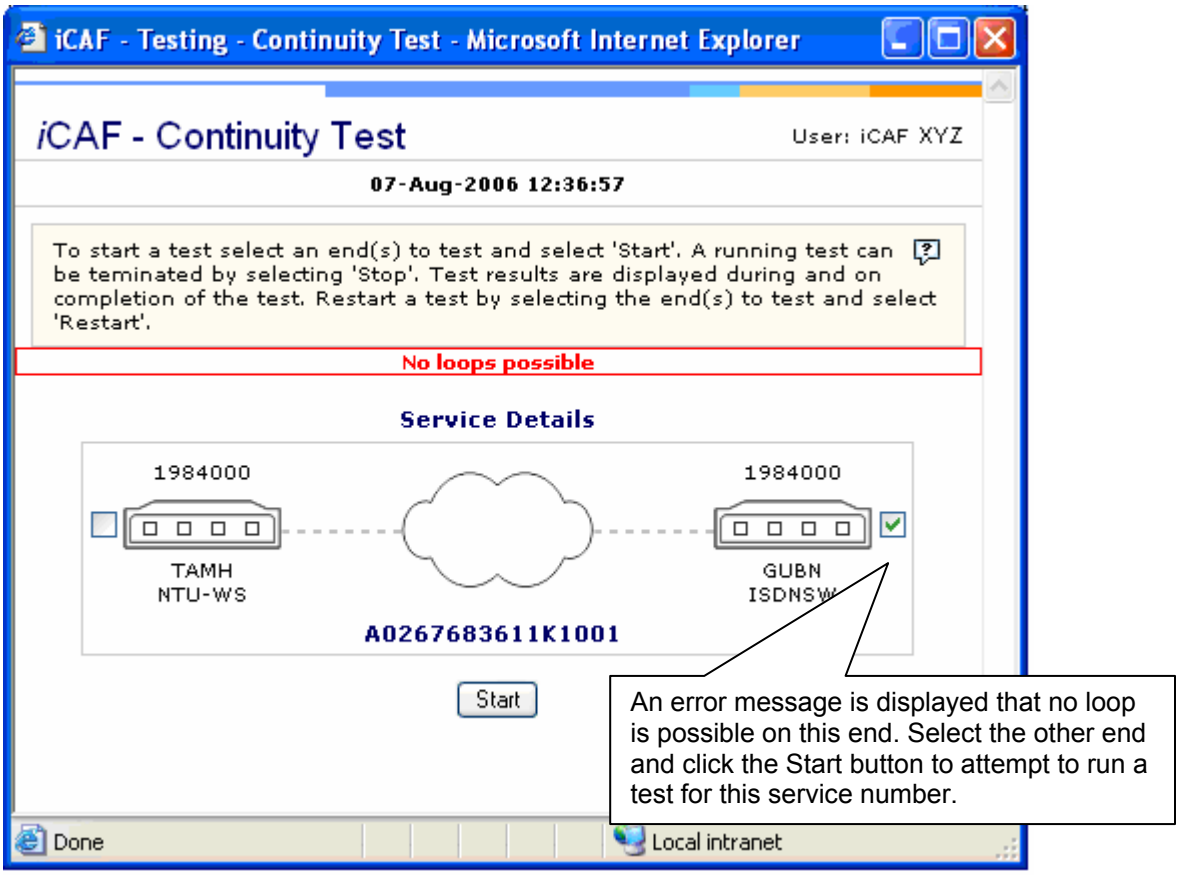

iCAF - Testing - Continuity Test - Microsoft Internet Explorer
iCAF - Continuity Test
User: iCAF XYZ
07-Aug-2006 12:36:57
To start a test select an end(s) to test and select 'Start'. A running test can be teminated by selecting 'Stop'. Test results are displayed during and on completion of the test. Restart a test by selecting the end(s) to test and select 'Restart'.
No loops possible
Service Details
1984000
1984000
TAMH
NTU-WS
GUBN
ISDNSW
A0267683611K1001
Start
An error message is displayed that no loop is possible on this end. Select the other end and click the Start button to attempt to run a test for this service number.
Done
Local intranet

Figure 4.2.7 – Error Message – No loops possible

For any one end of the service, the test attempts to install a loop from the Test Access Point (TAP) to the most remote piece of equipment. If the loop installs successfully, the test will run. If unsuccessful, the test attempts to install a loop in the second most remote piece of equipment and so on until a loop is installed successfully or no more equipment is available.

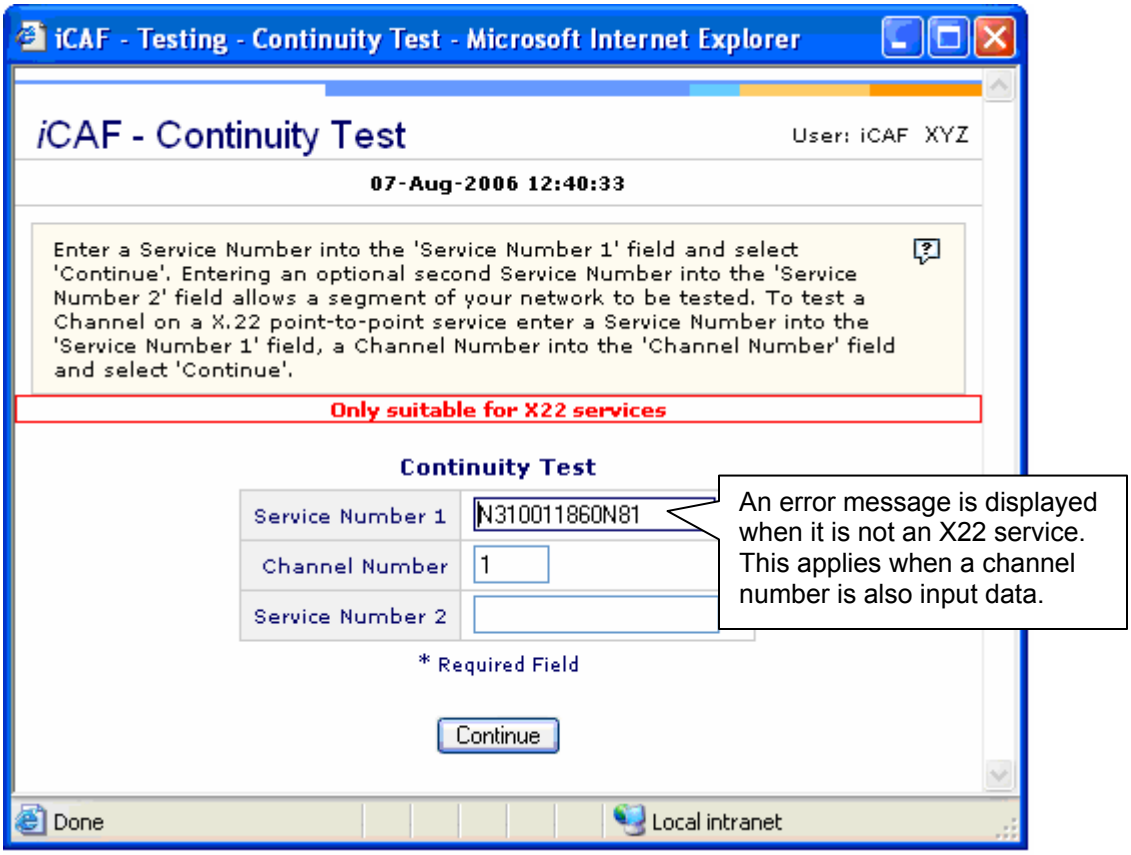

iCAF - Testing - Continuity Test - Microsoft Internet Explorer
iCAF - Continuity Test
User: iCAF XYZ
07-Aug-2006 12:40:33
Enter a Service Number into the 'Service Number 1' field and select 'Continue'. Entering an optional second Service Number into the 'Service Number 2' field allows a segment of your network to be tested. To test a Channel on a X.22 point-to-point service enter a Service Number into the 'Service Number 1' field, a Channel Number into the 'Channel Number' field and select 'Continue'.
Only suitable for X22 services
Continuity Test
Service Number 1
N310011860N81
Channel Number
1
Service Number 2
* Required Field
Continue
Done
Local intranet
An error message is displayed when it is not an X22 service. This applies when a channel number is also input data.

Figure 4.2.8 – Error Message – input data not suitable for X22 services

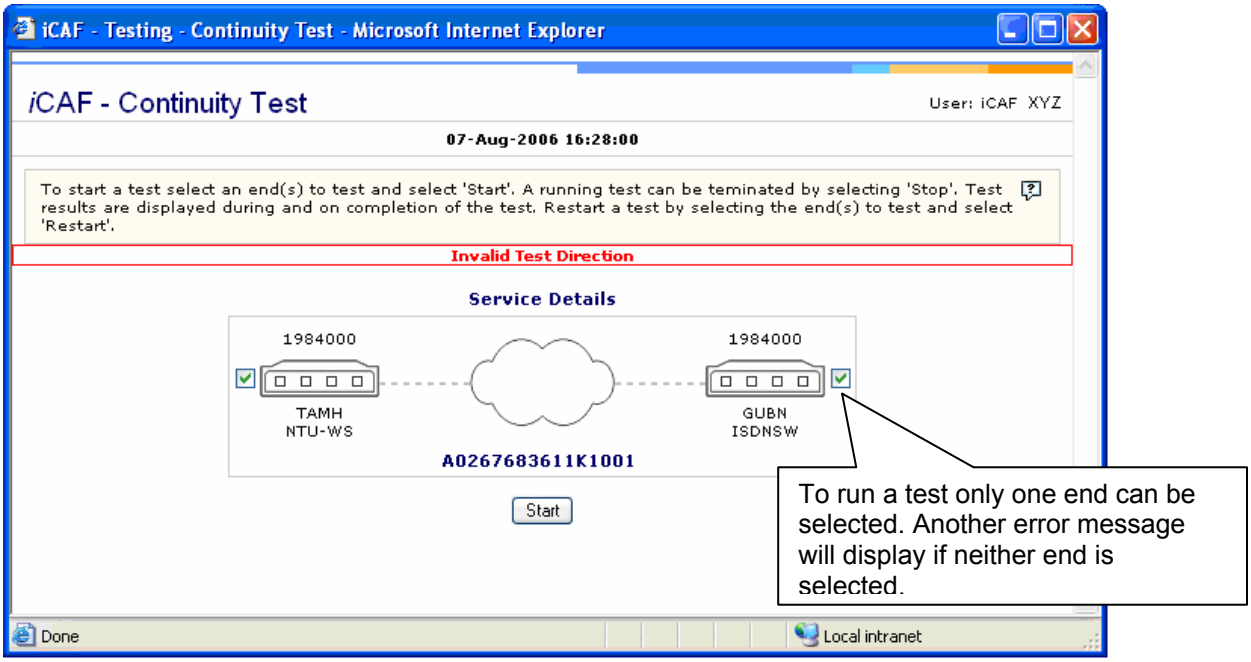

iCAF - Testing - Continuity Test - Microsoft Internet Explorer
iCAF - Continuity Test
User: iCAF XYZ
07-Aug-2006 16:28:00
To start a test select an end(s) to test and select 'Start'. A running test can be terminated by selecting 'Stop'. Test results are displayed during and on completion of the test. Restart a test by selecting the end(s) to test and select 'Restart'.
Invalid Test Direction
Service Details
1984000
1984000
TAMH
NTU-WS
GUBN
ISDNSW
A0267683611K1001
Start
Done
Local intranet
To run a test only one end can be selected. Another error message will display if neither end is selected.

Figure 4.2.9 - Error Message – Invalid Test Direction.

Restrictions

There is a limit to the number of concurrent tests that can be active within the DDN at any given time. This may mean that at some time a request for a service test cannot be granted until a resource becomes available.

Recovery

In the case of a computer breakdown, loss of communications etc, the test will be terminated.

The service under test at termination time will be restored to its pre-test Configuration.

Field Descriptions

Input fields

Service Number(s)

A single service number or two service numbers or a service number/channel number combination.

End to Test

Select either the A-end or the B-end to test.

Output Results table

Start Time

The date and time the continuity test begun.

End Time

The date and time the continuity test ended.

Test Results

The result will display either ‘Passed’ or ‘Failed’. Passed means the test data was sent successfully without any errors.Failed means the test data sent was not successful and contained errors.

4.3. MJE Tributary Scan

Description

The 'MJE Tributary Scan' function can assist in identifying a faulty tributary after MJE contention has been detected or is suspected. The tributary scan function, when started, will through connect each tributary one at a time whilst, at the same time, monitoring the main channel. If a faulty tributary is detected you will be notified.

The first stage of the test installs a channel monitor on the drive-line of the MJE without disrupting the service. At this time the protocol is active with the tributaries.

Contention occurs when two terminals have the same network address or one or more terminals are transmitting data when not requested.

The second and subsequent stages of the test involves breaking the service and through connecting the MJE to the next tributary. Each tributary will have a test result displayed ('Pass' or 'Fail').

Usage

Click on 'MJE Tributary Scan' located on the navigation bar on the left side of the screen or click on 'Testing' in the menu bar located at the top of the page to open up the main menu screen where the link 'MJE Tributary Scan' is displayed.

The following screen will be displayed in a new browser window.

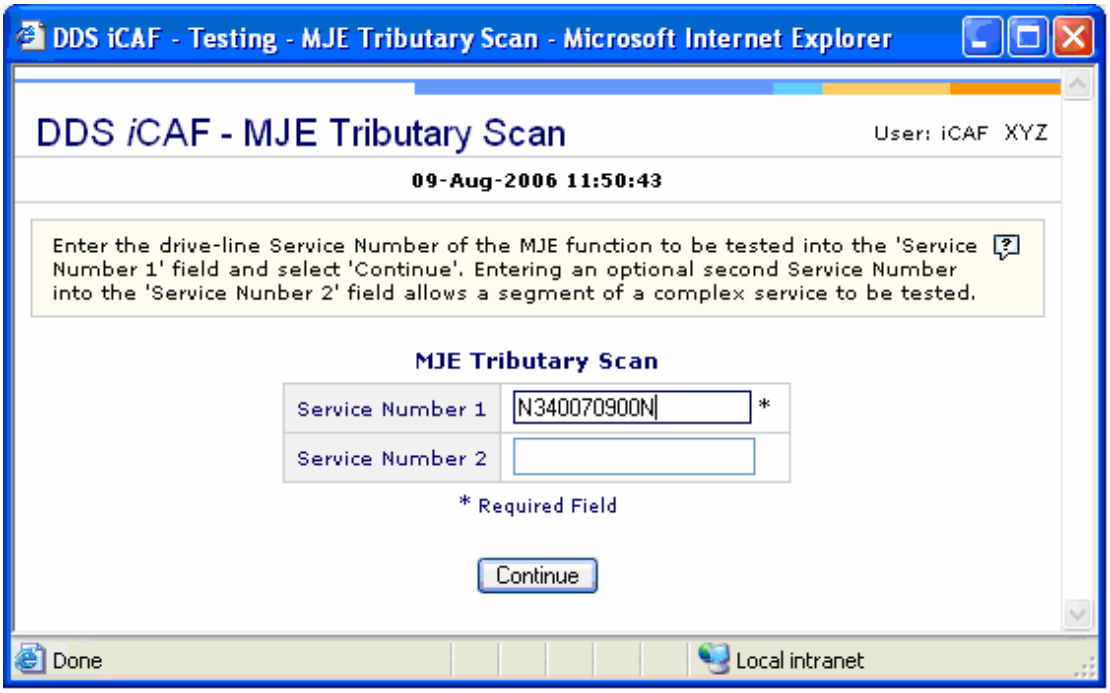

DDS iCAF - Testing - MJE Tributary Scan - Microsoft Internet Explorer
DDS iCAF - MJE Tributary Scan
User: iCAF XYZ
09-Aug-2006 11:50:43
Enter the drive-line Service Number of the MJE function to be tested into the 'Service Number 1' field and select 'Continue'. Entering an optional second Service Number into the 'Service Nunber 2' field allows a segment of a complex service to be tested.
MJE Tributary Scan
Service Number 1
N340070900N
*
Service Number 2
* Required Field
Continue
Done
Local intranet

Figure 4.3.1 - MJE Tributary Scan – Data entry interface

Enter the drive-line service number of the MJE function to be tested then click on the Continue button.

Entering dual service numbers allows a segment of a complex service to be tested. The segment will be followed and is expected to end on the drive-line of an MJE function which will become the tested MJE. Any intervening MJEs will be automatically through connected.

The system responds by presenting a diagram showing the details of the service or service segment to be tested. Use the diagram to verify that you have entered the correct service number/s. If not correct, re-invoke the function.

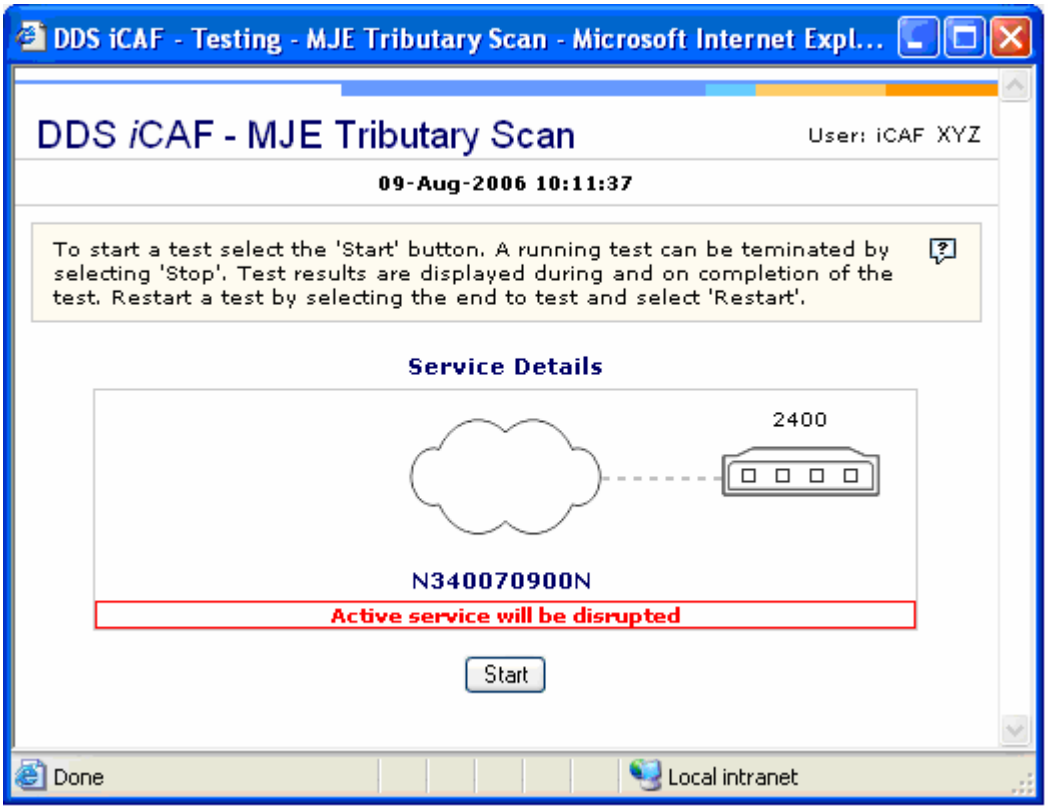

DDS iCAF - Testing - MJE Tributary Scan - Microsoft Internet Expl...
DDS iCAF - MJE Tributary Scan
User: iCAF XYZ
09-Aug-2006 10:11:37
To start a test select the 'Start' button. A running test can be teminated by selecting 'Stop'. Test results are displayed during and on completion of the test. Restart a test by selecting the end to test and select 'Restart'.
Service Details
2400
N340070900N
Active service will be disrupted
Start
Done
Local intranet

Figure 4.3.2 - MJE Tributary Scan – Displays service number and awaits user command to begin test.

If you wish to proceed with the test, click on the Start button.

The system responds by displaying the test details and which tributary it is currently testing.

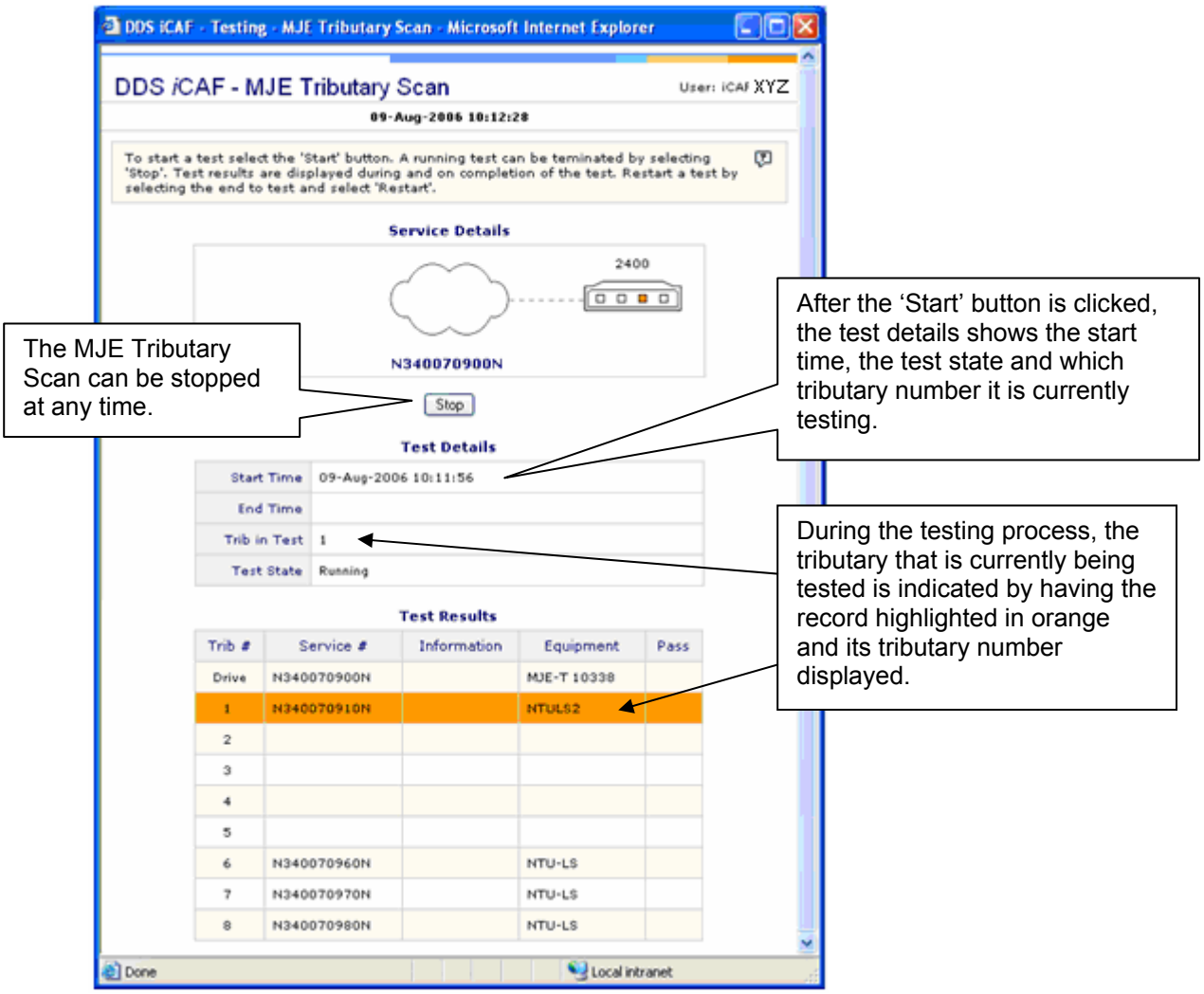

DDS iCAF - Testing - MJE Tributary Scan - Microsoft Internet Explorer
DDS iCAF - MJE Tributary Scan
User: iCAF XYZ
09-Aug-2006 10:12:28
To start a test select the 'Start' button. A running test can be terminated by selecting 'Stop'. Test results are displayed during and on completion of the test. Restart a test by selecting the end to test and select 'Restart'.
Service Details
2400
N340070900N
Stop
Test Details
Start Time 09-Aug-2006 10:11:56
End Time
Trib in Test 1
Test State Running
Test Results
Trib # | Service # | Information | Equipment | Pass
Drive | N340070900N | | MJE-T 10338 |
1 | N340070910N | | NTULS2 |
2
3
4
5
6 | N340070960N | | NTU-LS |
7 | N340070970N | | NTU-LS |
8 | N340070980N | | NTU-LS
Done
Local intranet
The MJE Tributary Scan can be stopped at any time.
After the 'Start' button is clicked, the test details shows the start time, the test state and which tributary number it is currently testing.
During the testing process, the tributary that is currently being tested is indicated by having the record highlighted in orange and its tributary number displayed.

Figure 4.3.3- MJE Tributary Scan – Test State - Running

Test results will be displayed for each tributary in the 'Pass' column.

The test monitors the drive-line service then each tributary service in turn.

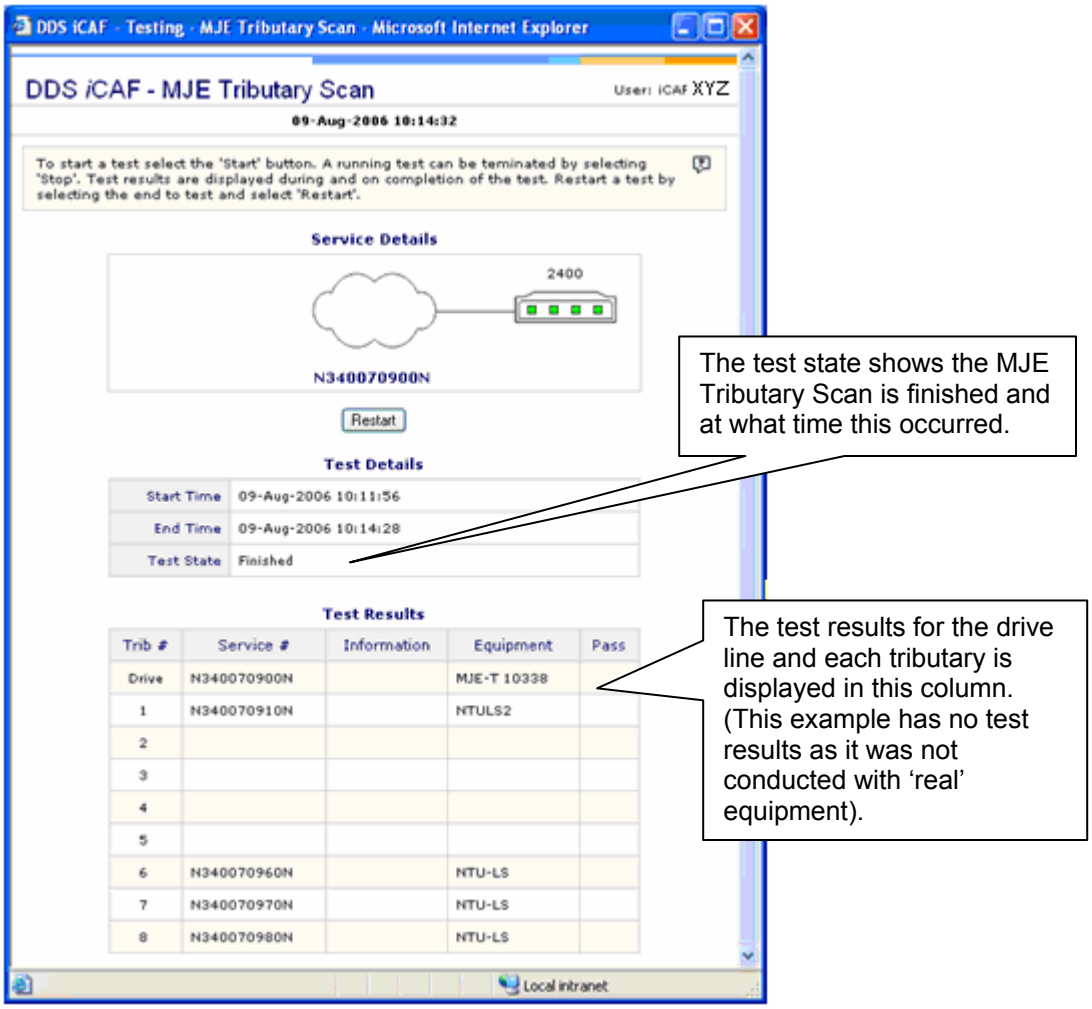

DDS iCAF - Testing - MJE Tributary Scan - Microsoft Internet Explorer
DDS iCAF - MJE Tributary Scan
User: iCAF XYZ
09-Aug-2006 10:14:32
To start a test select the 'Start' button. A running test can be terminated by selecting 'Stop'. Test results are displayed during and on completion of the test. Restart a test by selecting the end to test and select 'Restart'.
Service Details
2400
N340070900N
Restart
Test Details
Start Time 09-Aug-2006 10:11:56
End Time 09-Aug-2006 10:14:28
Test State Finished
Test Results
Trib # | Service # | Information | Equipment | Pass
Drive | N340070900N | | MJE-T 10338 |
1 | N340070910N | | NTULS2 |
2 | | | |
3 | | | |
4 | | | |
5 | | | |
6 | N340070960N | | NTU-LS |
7 | N340070970N | | NTU-LS |
8 | N340070980N | | NTU-LS
Local intranet
The test state shows the MJE Tributary Scan is finished and at what time this occurred.
The test results for the drive line and each tributary is displayed in this column. (This example has no test results as it was not conducted with 'real' equipment).

Figure 4.3.4 - MJE Tributary Scan – Test State - Finished

MJE Tributary Scan – a sample of error messages.

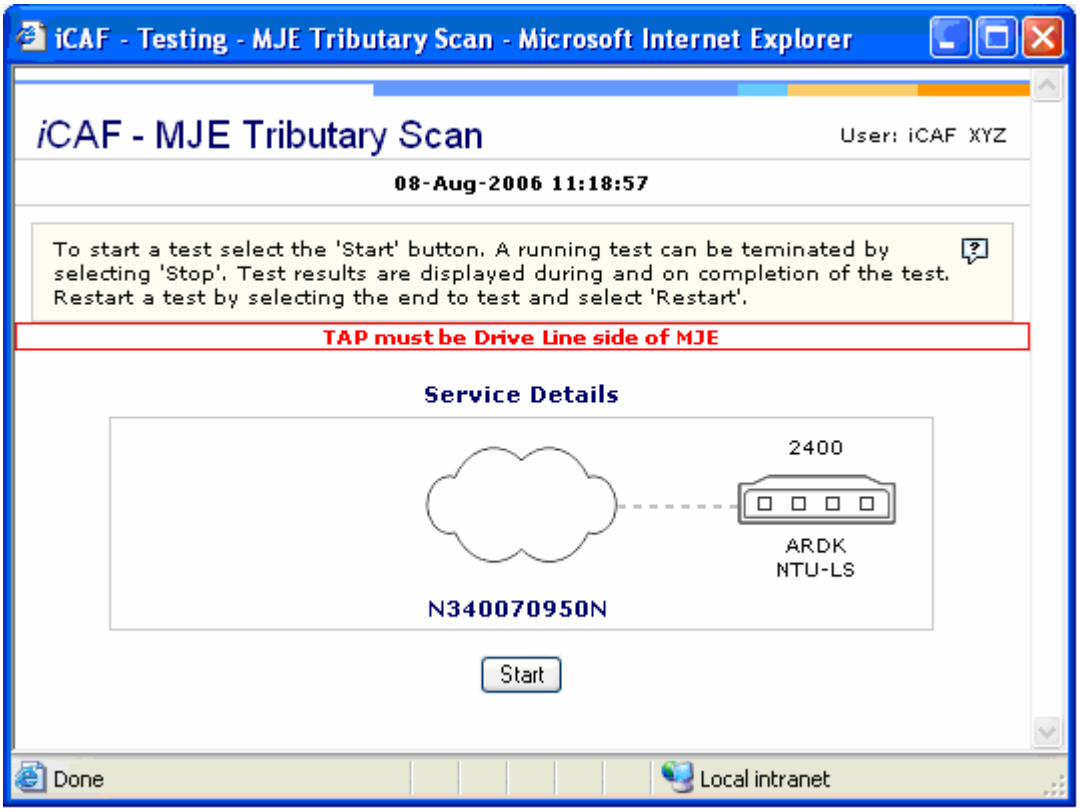

iCAF - Testing - MJE Tributary Scan - Microsoft Internet Explorer
iCAF - MJE Tributary Scan
User: iCAF XYZ
08-Aug-2006 11:18:57
To start a test select the 'Start' button. A running test can be teminated by selecting 'Stop'. Test results are displayed during and on completion of the test. Restart a test by selecting the end to test and select 'Restart'.
TAP must be Drive Line side of MJE
Service Details
2400
ARDK
NTU-LS
N340070950N
Start
Done
Local intranet

Figure 4.3.5 – The service number entered must be the drive line service number connected to the MJE function.

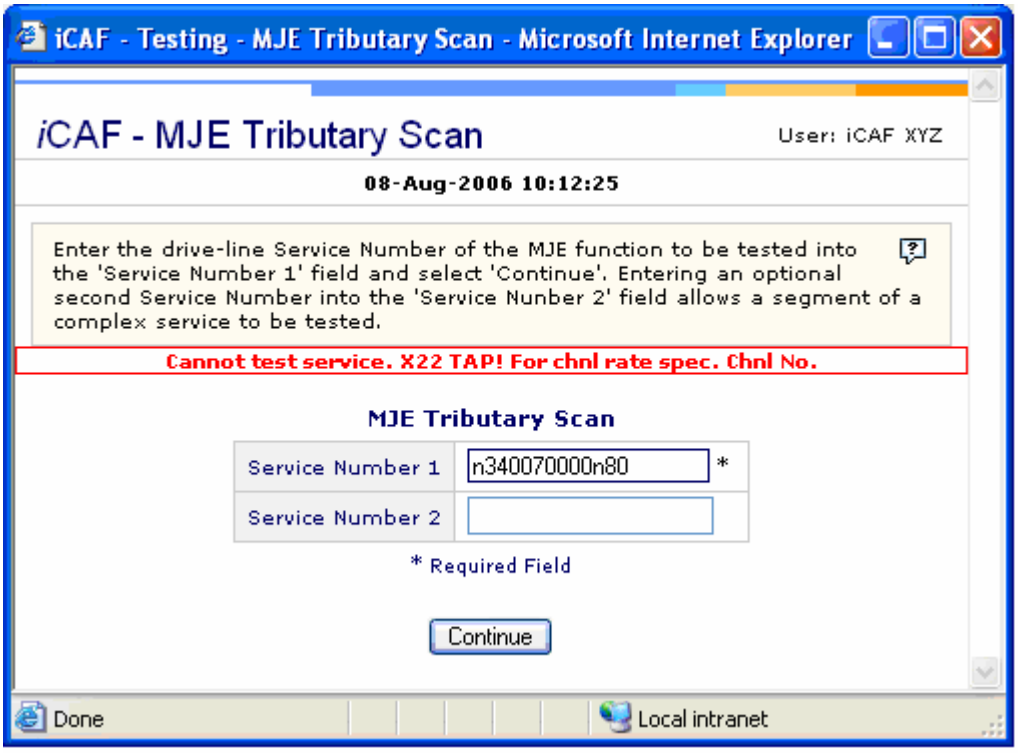

iCAF - Testing - MJE Tributary Scan - Microsoft Internet Explorer
iCAF - MJE Tributary Scan
User: iCAF XYZ
08-Aug-2006 10:12:25
Enter the drive-line Service Number of the MJE function to be tested into the 'Service Number 1' field and select 'Continue'. Entering an optional second Service Number into the 'Service Number 2' field allows a segment of a complex service to be tested.
Cannot test service. X22 TAP! For chnl rate spec. Chnl No.
MJE Tributary Scan
Service Number 1
n340070000n80
*
Service Number 2
* Required Field
Continue
Done
Local intranet

Figure 4.3.6 – MJE Tributary Scan Error Message.

Field Descriptions

Input fields

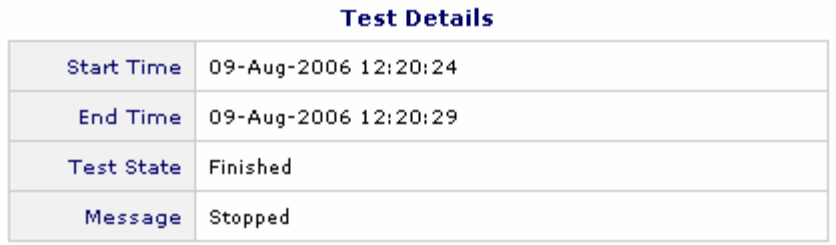
Service Number(s)
A single service number or two service numbers.

Output Results

Test Details table:

Test State
An MJE Tributary scan can have two states - Running, Finished.

Message
If an MJE Tributary scan is stopped, the Message field will appear and display ‘Stopped’, otherwise it is not displayed in the Test Details table.



Test Details

Start Time	09-Aug-2006 12:20:24
End Time	09-Aug-2006 12:20:29
Test State	Finished
Message	Stopped

Figure 4.3.7 – MJE Tributary Scan will display message details when it is stopped during a test.

Test Reults table:

Trib #

The field will display either the value 'Drive' or a tributary number from 1 to 8. All eight rows are displayed whether there is a service number or not.

Service #

The service number on the tributary.

Information

A descripiton will be displayed if one was entered by the user.

Equipment

The equipment type at the terminating end of the service, for e.g. NTU-LS.

Pass

What will the test result display?

Results may be Customer Data, Network Commands or Network statuses.

Customer Data

Some typical Customer Data are:

S = 1 Active data
S = 0/1 Active data
S = 1 All zeros

Network Commands

Some typical Network Commands are:

S = 0 NTU Loop
S = 0 MJE Thru-conn
Sig NTU Loop 64K

Network Statuses

Some typical Network Statuses are:

Loss of alignment
TAS eqp failure
Loss of sync

5. Inject & Analyse – TDCC / BAU / NTU45 TAP

Description

The 'Inject and Analyse' function is a disruptive test that installs loopbacks at the end points of the service, injects a test pattern and analyses the returning test pattern.

Usage

Click on ‘Inject and Analyse’ located on the navigation bar on the left side of the screen or click on ‘Testing’ in the menu bar located at the top of the page to open up the main menu screen where the link ‘Inject and Analyse’ is displayed.

The following screen will be displayed in a new browser window.

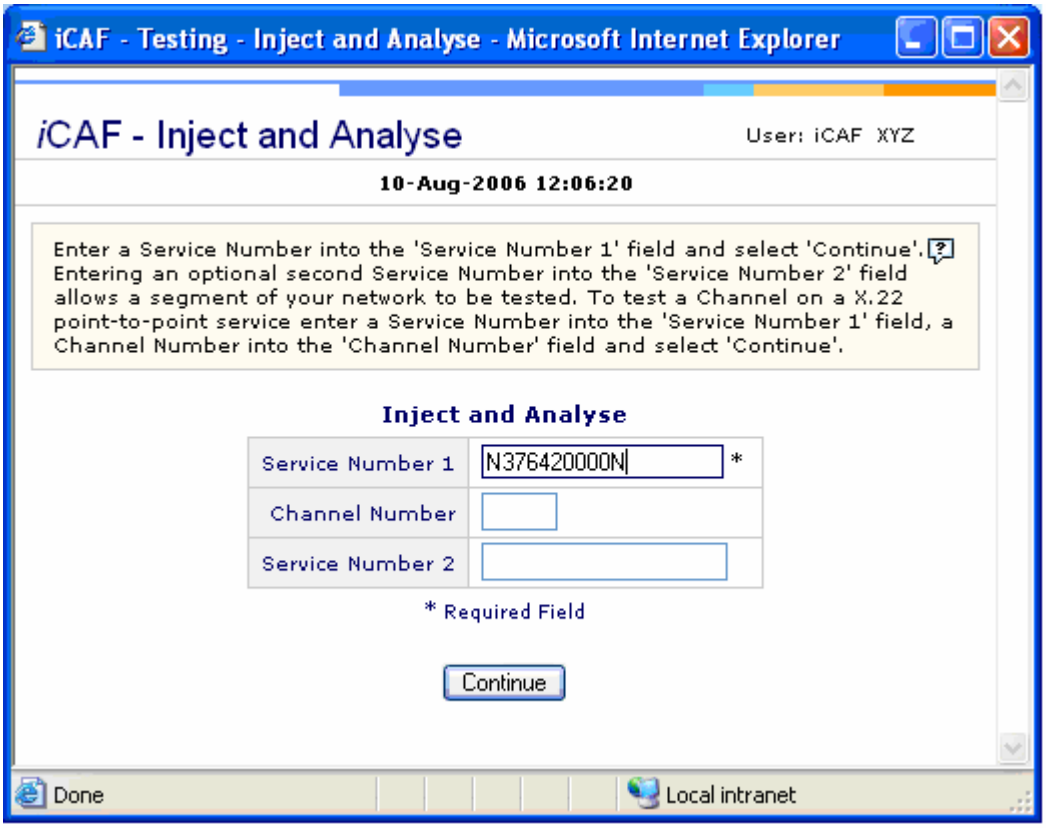

iCAF - Testing - Inject and Analyse - Microsoft Internet Explorer
iCAF - Inject and Analyse
User: iCAF XYZ
10-Aug-2006 12:06:20
Enter a Service Number into the 'Service Number 1' field and select 'Continue'. Entering an optional second Service Number into the 'Service Number 2' field allows a segment of your network to be tested. To test a Channel on a X.22 point-to-point service enter a Service Number into the 'Service Number 1' field, a Channel Number into the 'Channel Number' field and select 'Continue'.
Inject and Analyse
Service Number 1
N376420000N
*
Channel Number
Service Number 2
* Required Field
Continue
Done
Local intranet

Figure 4.3.1 – Inject and Analyse Test – opening screen where data is entered.

Enter a service number then click on the *Continue* button. If you want to test a segment of your network, enter two service numbers. If you want to test a channel on a netplex service enter a service/channel number combination.

The system responds by presenting a diagram showing the details of the service or service segment to be tested. Use the diagram to verify that you have entered the correct service number(s). If not correct, re-invoke the function.

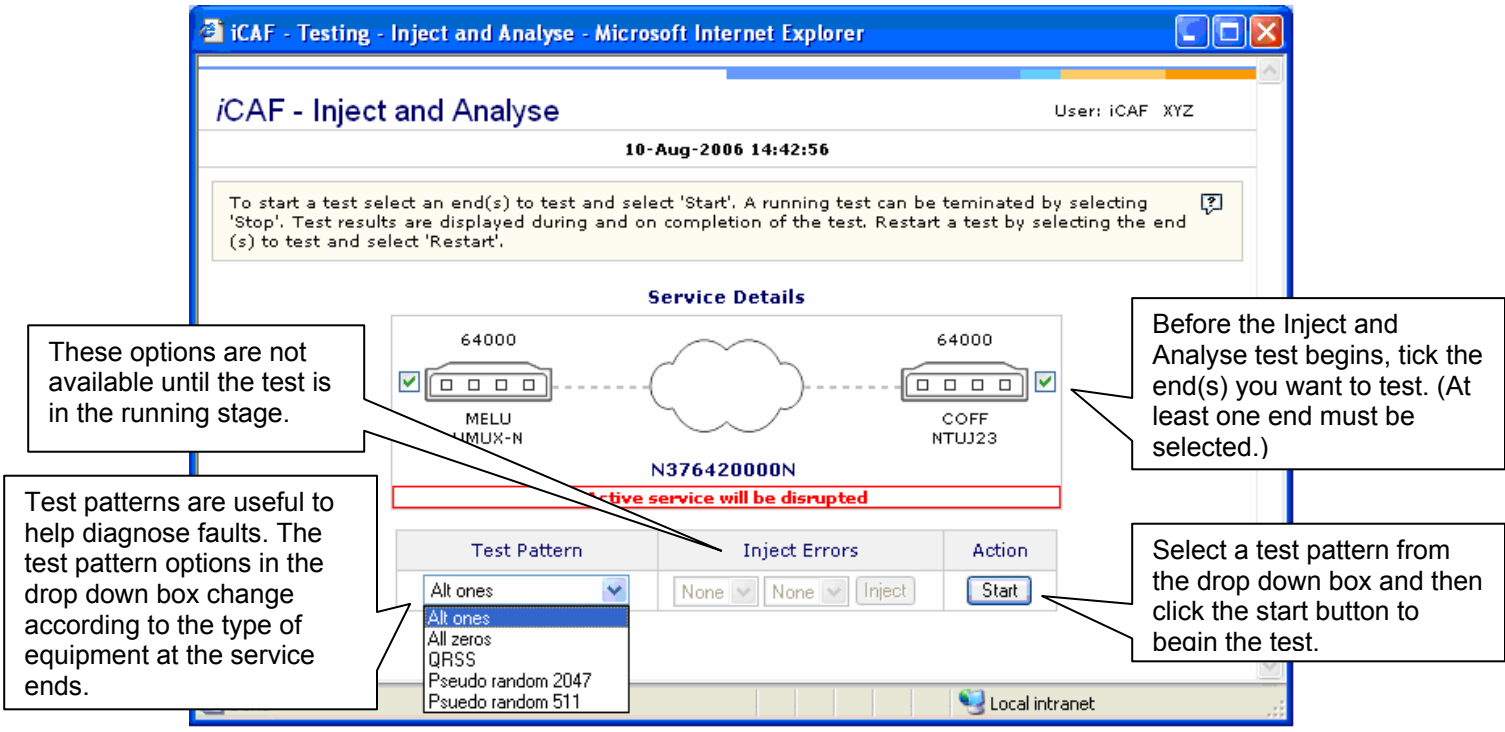

iCAF - Testing - Inject and Analyse - Microsoft Internet Explorer
iCAF - Inject and Analyse
User: iCAF XYZ
10-Aug-2006 14:42:56
To start a test select an end(s) to test and select 'Start'. A running test can be teminated by selecting 'Stop'. Test results are displayed during and on completion of the test. Restart a test by selecting the end (s) to test and select 'Restart'.
Service Details
64000
64000
MELU
COFF
NTUJ23
N376420000N
Test Pattern
Inject Errors
Action
Alt ones
None
None
Inject
Start
Alt ones
All zeros
QRSS
Pseudo random 2047
Psuedo random 511
Local intranet
These options are not available until the test is in the running stage.
Test patterns are useful to help diagnose faults. The test pattern options in the drop down box change according to the type of equipment at the service ends.
Before the Inject and Analyse test begins, tick the end(s) you want to test. (At least one end must be selected.)
Select a test pattern from the drop down box and then click the start button to begin the test.

Figure 4.3.2 – Inject and Analyse Test – Displays service details and awaits user command to begin test.

The next figure shows the test in the running stage.

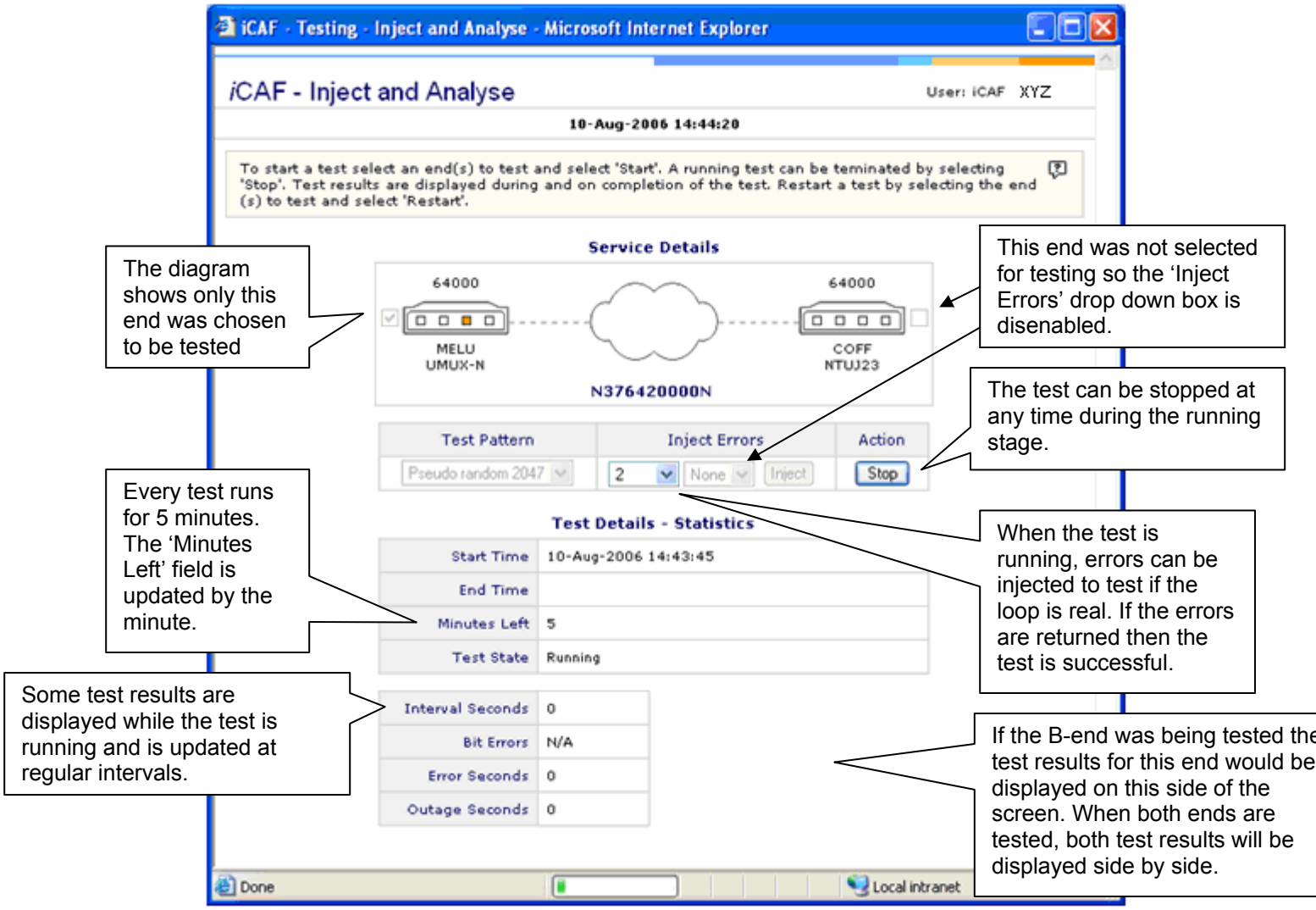

iCAF - Testing - Inject and Analyse - Microsoft Internet Explorer
iCAF - Inject and Analyse
User: iCAF XYZ
10-Aug-2006 14:44:20
To start a test select an end(s) to test and select 'Start'. A running test can be teminated by selecting 'Stop'. Test results are displayed during and on completion of the test. Restart a test by selecting the end (s) to test and select 'Restart'.
Service Details
64000
64000
MELU
UMUX-N
COFF
NTUJ23
N376420000N
Test Pattern
Inject Errors
Action
Pseudo random 2047
2
None
Inject
Stop
Test Details - Statistics
Start Time
10-Aug-2006 14:43:45
End Time
Minutes Left
5
Test State
Running
Interval Seconds
0
Bit Errors
N/A
Error Seconds
0
Outage Seconds
0
Done
Local intranet
The diagram shows only this end was chosen to be tested
This end was not selected for testing so the 'Inject Errors' drop down box is disenabled.
The test can be stopped at any time during the running stage.
Every test runs for 5 minutes. The 'Minutes Left' field is updated by the minute.
When the test is running, errors can be injected to test if the loop is real. If the errors are returned then the test is successful.
Some test results are displayed while the test is running and is updated at regular intervals.
If the B-end was being tested the test results for this end would be displayed on this side of the screen. When both ends are tested, both test results will be displayed side by side.

Figure 4.3.3 – Inject and Analyse Test – running stage.

When the test is completed a "Final Results" screen is displayed as shown in the next figure.

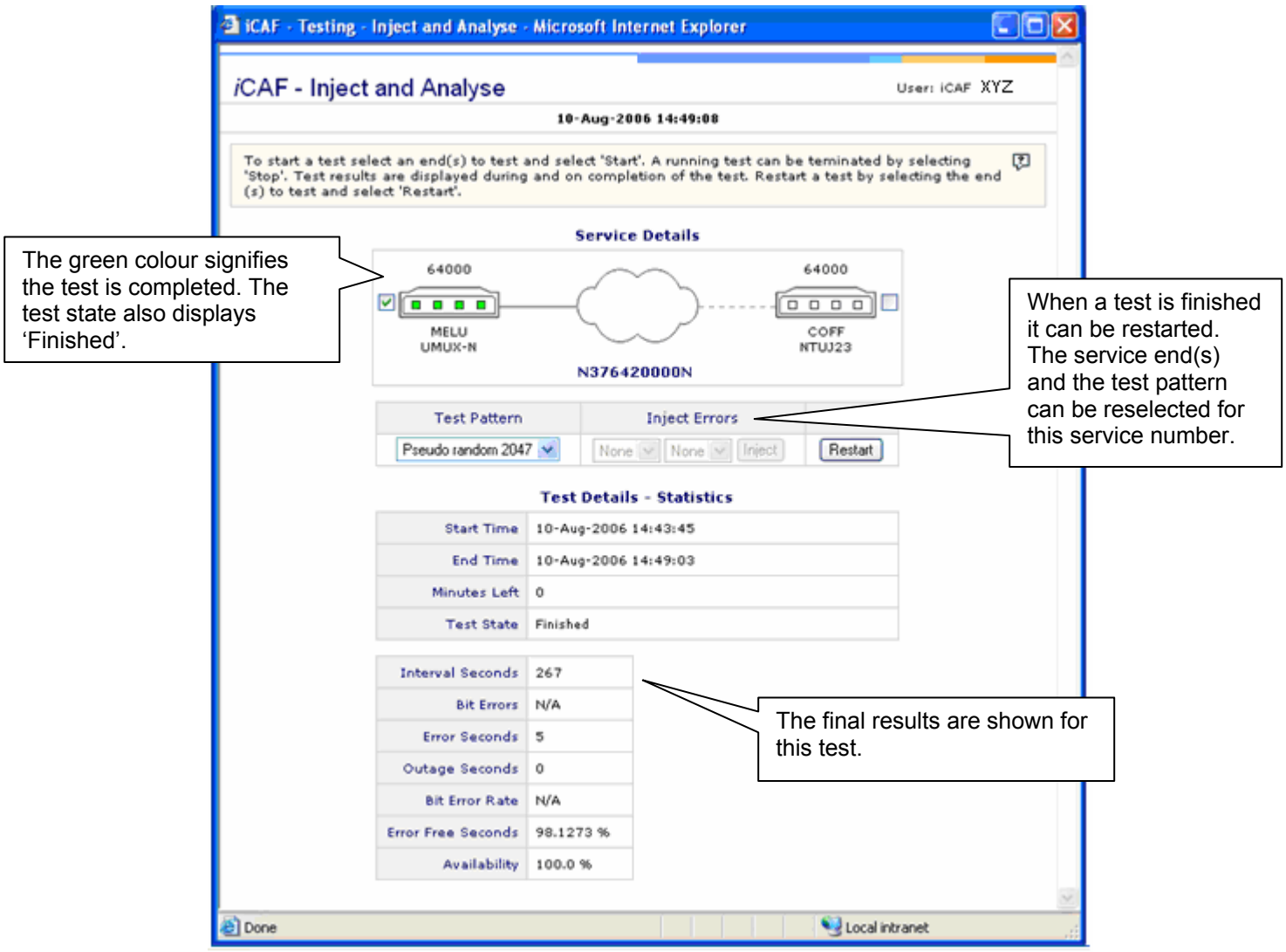

iCAF - Testing - Inject and Analyse - Microsoft Internet Explorer
iCAF - Inject and Analyse
User: iCAF XYZ
10-Aug-2006 14:49:08
To start a test select an end(s) to test and select 'Start'. A running test can be teminated by selecting 'Stop'. Test results are displayed during and on completion of the test. Restart a test by selecting the end (s) to test and select 'Restart'.
Service Details
64000
64000
MELU
UMUX-N
COFF
NTUJ23
N376420000N
Test Pattern
Inject Errors
Pseudo random 2047
None
None
Inject
Restart
Test Details - Statistics
Start Time 10-Aug-2006 14:43:45
End Time 10-Aug-2006 14:49:03
Minutes Left 0
Test State Finished
Interval Seconds 267
Bit Errors N/A
Error Seconds 5
Outage Seconds 0
Bit Error Rate N/A
Error Free Seconds 98.1273 %
Availability 100.0 %
Done
Local intranet
The green colour signifies the test is completed. The test state also displays 'Finished'.
When a test is finished it can be restarted. The service end(s) and the test pattern can be reselected for this service number.
The final results are shown for this test.

Figure 4.3.4 - Inject and Analyse Test – finished test state.

Inject and Analyse Error Messages

Various types of error messages will be displayed to the user if a test cannot run and give some indication as to why this is happening.

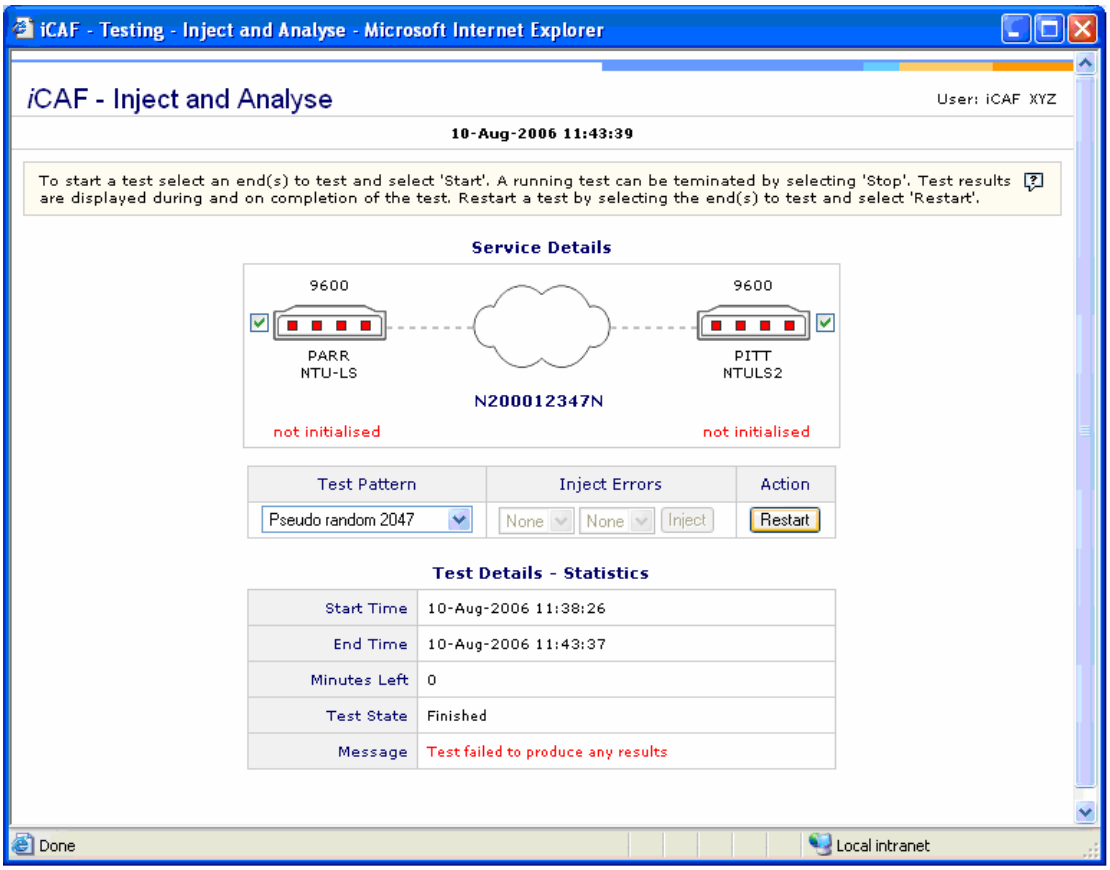


Figure 4.3.5 – Inject and Analyse – message displays if there aren't any results.

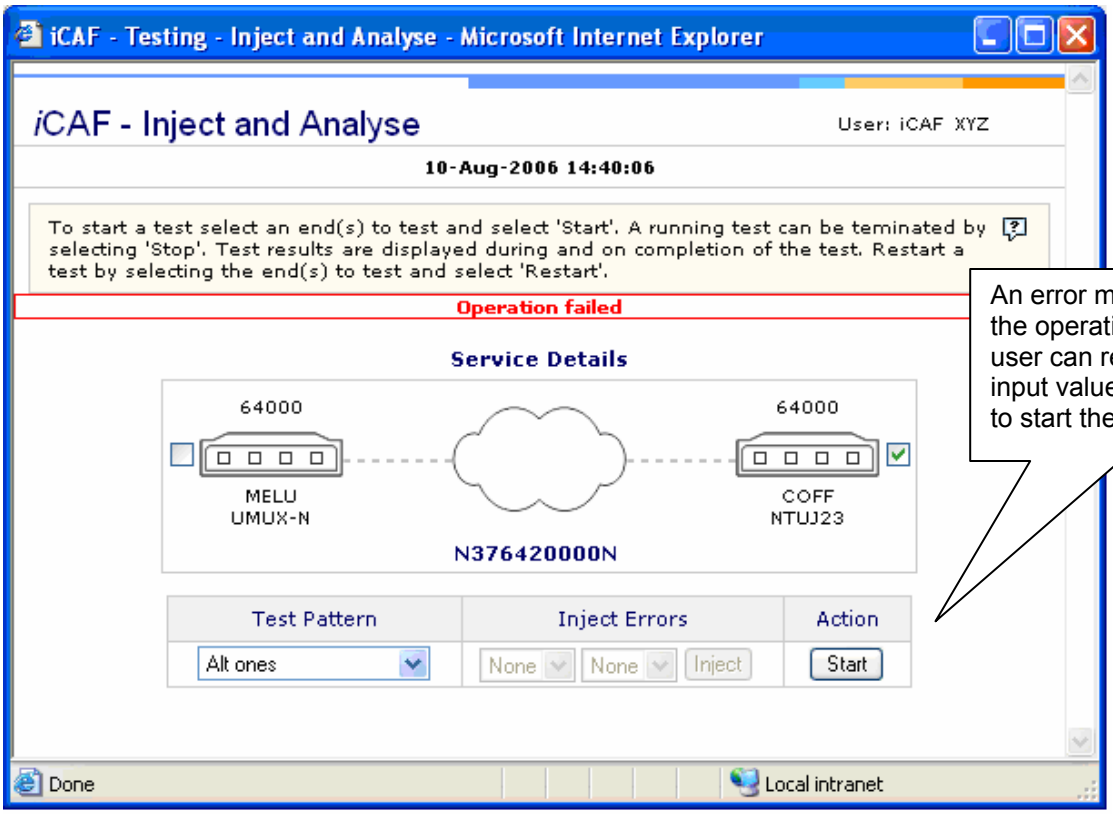

iCAF - Testing - Inject and Analyse - Microsoft Internet Explorer
iCAF - Inject and Analyse
User: iCAF XYZ
10-Aug-2006 14:40:06
To start a test select an end(s) to test and select 'Start'. A running test can be teminated by selecting 'Stop'. Test results are displayed during and on completion of the test. Restart a test by selecting the end(s) to test and select 'Restart'.
Operation failed
Service Details
64000
64000
MELU
UMUX-N
COFF
NTUJ23
N376420000N
Test Pattern
Inject Errors
Action
Alt ones
None
None
Inject
Start
Done
Local intranet
An error message displays the operation failed. The user can reselect new input values and attempt to start the test again.

Figure 4.3.6 – Inject and Analyse – an error message is displayed if the test cannot be conducted.

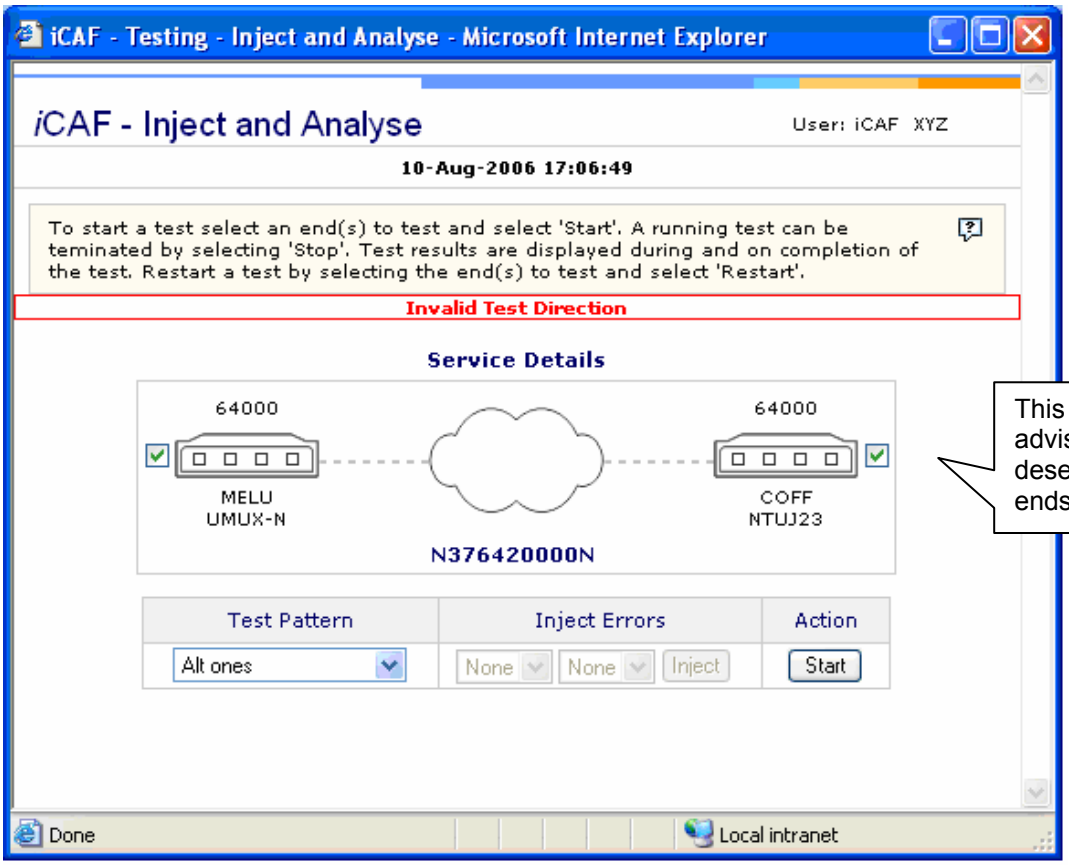

iCAF - Testing - Inject and Analyse - Microsoft Internet Explorer
iCAF - Inject and Analyse
User: iCAF XYZ
10-Aug-2006 17:06:49
To start a test select an end(s) to test and select 'Start'. A running test can be terminated by selecting 'Stop'. Test results are displayed during and on completion of the test. Restart a test by selecting the end(s) to test and select 'Restart'.
Invalid Test Direction
Service Details
64000
64000
MELU
UMUX-N
COFF
NTUJ23
N376420000N
Test Pattern
Inject Errors
Action
Alt ones
None
None
Inject
Start
Done
Local intranet
This error message advises the user to deselect one of the service ends.

Figure 4.3.7 - Inject and Analyse – error message- input values are not suitable to proceed with testing.

Field Descriptions

Input fields

Service Number(s)

A single service number or two service numbers.

A service number/channel number combination can be entered to test a channel on a X.22 point to point service.

End to Test

Select A-end, B-end or Both from the pull-down list.

Test Pattern

Accept the default pattern or choose another from the list. The test pattern options in the drop down list will vary according to the types of equipment at the service ends.

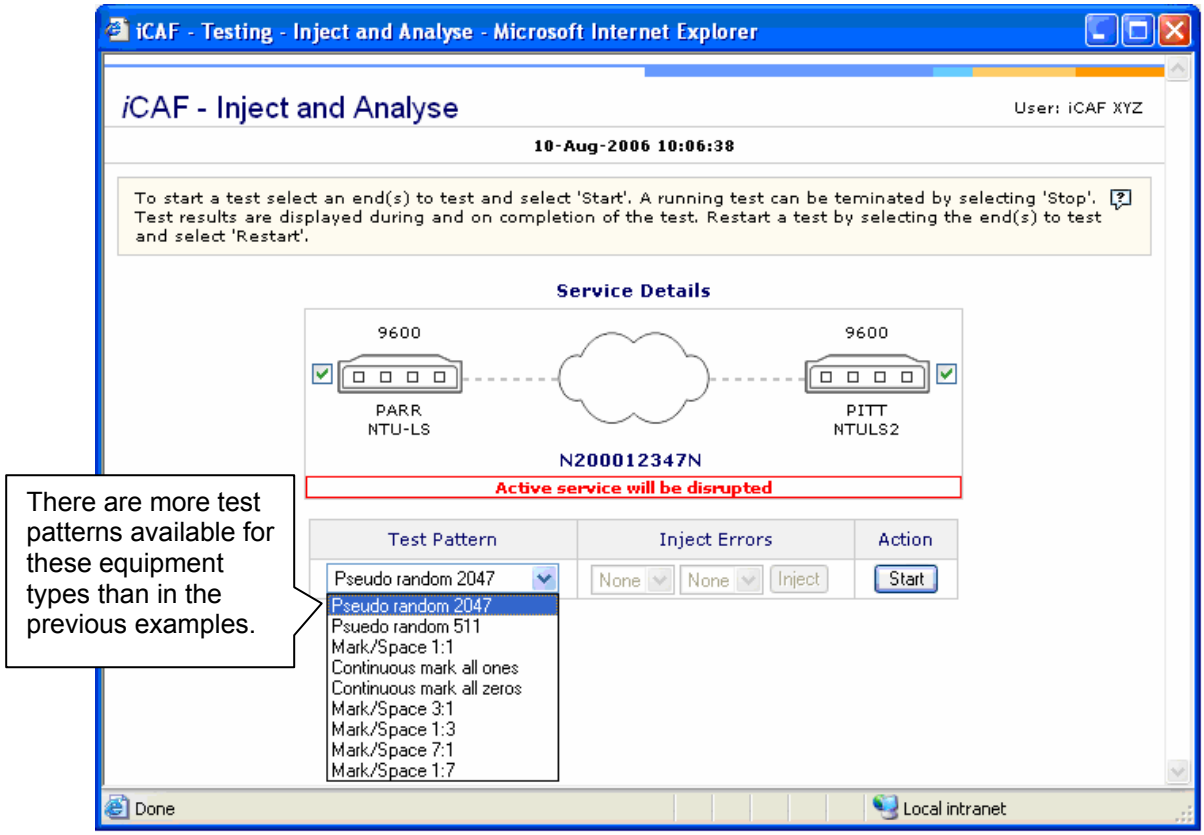


Figure 4.3.8 – Test pattern options vary depending on the equipment types at the service ends.

A-end Inject and B-end Inject

While a test is running you may inject from 1 to 9 bit errors into the A-end or B-end.

The figure below shows the drop down box where you can inject errors for the A-end.

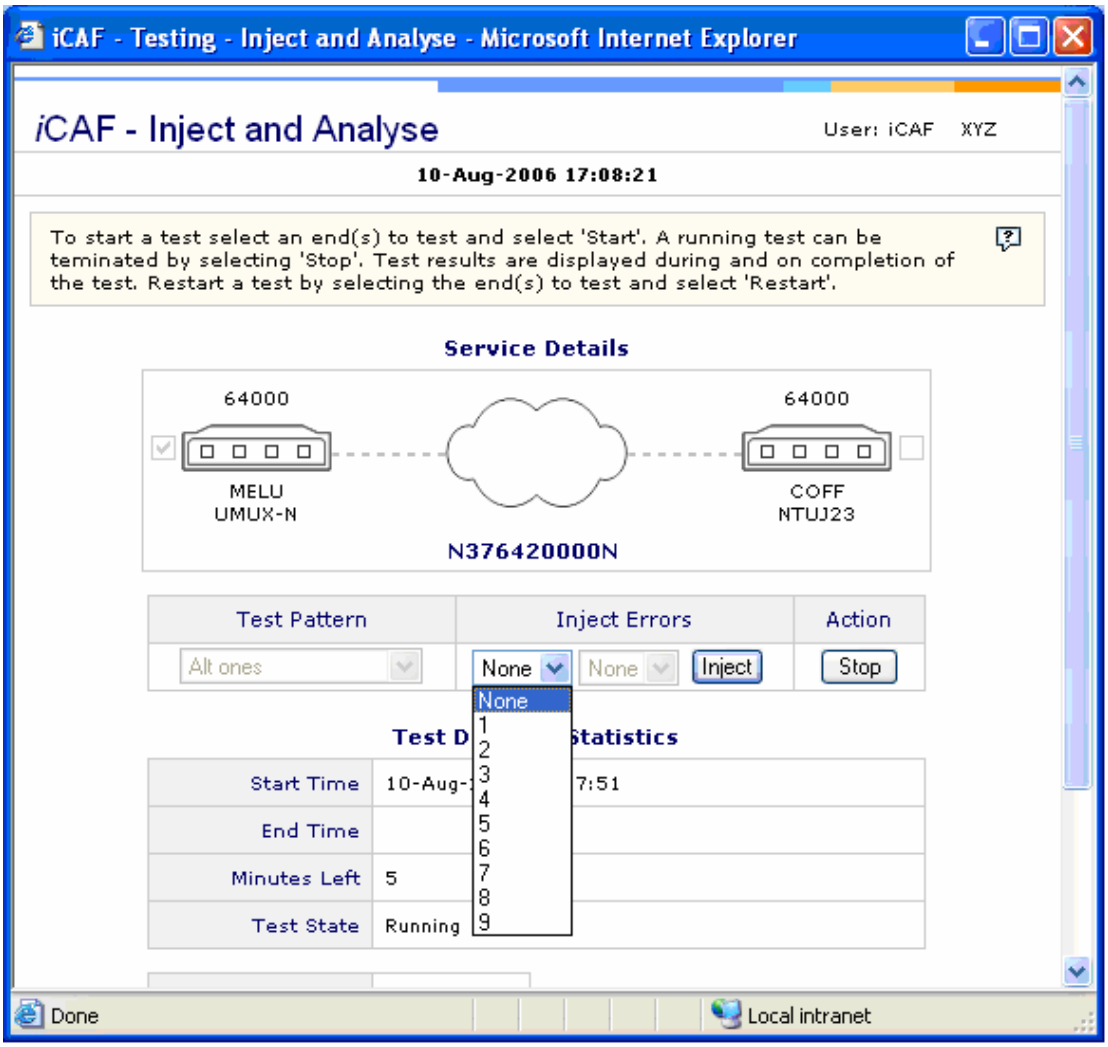


Figure 4.3.9 – 1 to 9 bit errors can be injected into the A or B-end.

Output fields - 'Running' Results

Start Time

The date and time the Inject and Analyse test began.

End Time

The date and time the Inject and Analyse test ended.

Minutes Left

Every test has a duration of 5 minutes. This field updates the number of minutes left by the minute. When the minutes left is equal to zero, the test state is finished.

Test State

There are two Test States: Running and Finished.

Message

If the test is stopped ahead of time (by clicking the stop button) the Message field will appear and display ‘Stopped’, otherwise it is not displayed in the Test Details – Statistics table.

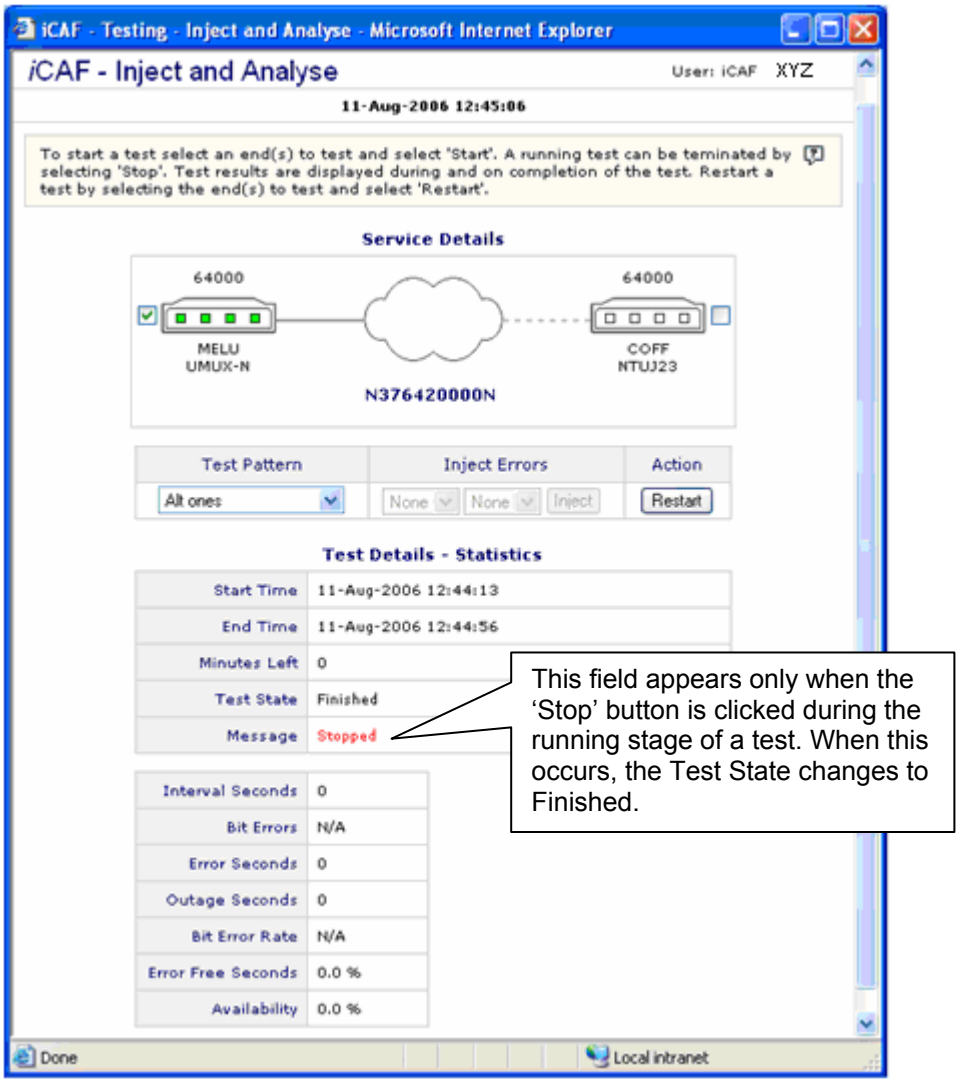

iCAF - Testing - Inject and Analyse - Microsoft Internet Explorer
iCAF - Inject and Analyse
User: iCAF XYZ
11-Aug-2006 12:45:06
To start a test select an end(s) to test and select 'Start'. A running test can be terminated by selecting 'Stop'. Test results are displayed during and on completion of the test. Restart a test by selecting the end(s) to test and select 'Restart'.
Service Details
64000
64000
MELU
UMUX-N
COFF
NTUJ23
N376420000N
Test Pattern
Inject Errors
Action
All ones
None
None
Inject
Restart
Test Details - Statistics
Start Time 11-Aug-2006 12:44:13
End Time 11-Aug-2006 12:44:56
Minutes Left 0
Test State Finished
Message Stopped
Interval Seconds 0
Bit Errors N/A
Error Seconds 0
Outage Seconds 0
Bit Error Rate N/A
Error Free Seconds 0.0 %
Availability 0.0 %
This field appears only when the ‘Stop’ button is clicked during the running stage of a test. When this occurs, the Test State changes to Finished.
Done
Local intranet

Figure 4.3.10 – Message field is displayed in the test details statistics when the test is stopped prematurely.

Interval Seconds

The time in seconds over which the results have been collected.

Bit Errors

A count of the bit errors that have occurred during the test which include your ‘Injected’ errors and/or other conditions in the network.

Error Seconds

A count of the error seconds. An error second is generated by a timer that matures every second and increments this count if one or more bit errors occurred over the previous second.

Outage Seconds

This is a running count of the accumulated outage time in seconds. Outage time increments when a block of 10 or more consecutive error seconds is received and includes the first 10 and any subsequent error seconds in the block. Outage time stops incrementing when one or more error free seconds are received.

Output fields - 'Finished' Results

Same as 'Running' Results plus the fields below.

Bit Error Rate

The formula is: Bit Error Count / (Observation Seconds * Baud Rate)

This is expressed in exponential notation, to two decimal places.

Error Free Seconds %

The formula is: (Observation Seconds – Error Second Count) * 100 / (Observation Seconds – Outage Second Count)

This represents the percentage of observation time free of error seconds.

Availability %

The formula is: (Observation Seconds – Outage Second Count) * 100 / Observation Seconds

This represents the percentage of observation time free from outage seconds.

5.1. Channel Monitor

Description

The 'Channel Monitor' function is a non-disruptive test that monitors the current state of the service at the Test Access Point (TAP). It shows whether the service is carrying customer data or network commands. The test presents any change of state to you if and when it occurs.

Usage

Click on 'Channel Monitor' located on the navigation bar on the left side of the screen or click on ‘Testing’ in the menu bar located at the top of the page to open up the main menu screen where the link 'Channel Monitor' is displayed.

The following screen will be displayed in a new browser window.

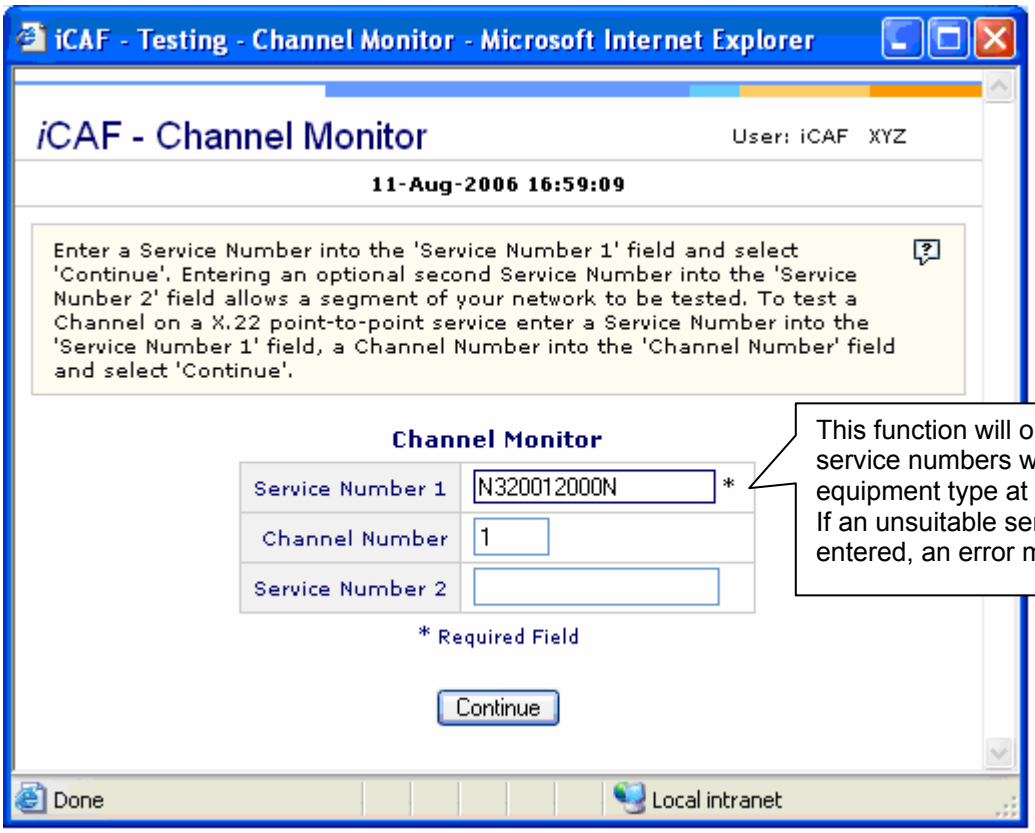

iCAF - Testing - Channel Monitor - Microsoft Internet Explorer
iCAF - Channel Monitor
User: iCAF XYZ
11-Aug-2006 16:59:09
Enter a Service Number into the 'Service Number 1' field and select 'Continue'. Entering an optional second Service Number into the 'Service Nunber 2' field allows a segment of your network to be tested. To test a Channel on a X.22 point-to-point service enter a Service Number into the 'Service Number 1' field, a Channel Number into the 'Channel Number' field and select 'Continue'.
Channel Monitor
Service Number 1
N320012000N
*
Channel Number
1
Service Number 2
* Required Field
Continue
Done
Local intranet
This function will only run tests for service numbers which have a TDCC equipment type at the terminating end. If an unsuitable service number is entered, an error message will appear.

Figure 5.1.1 – Channel Monitor – opening screen where data is entered.

Enter a service number then click on the *Continue* button. If you want to test a segment of your network, enter two service numbers. If you want to test a channel on a netplex service enter a service/channel number combination.

The system responds by presenting a diagram showing the details of the service or service segment to be tested. Use the diagram to verify that you have entered the correct service number(s). If not correct, re-invoke the function.

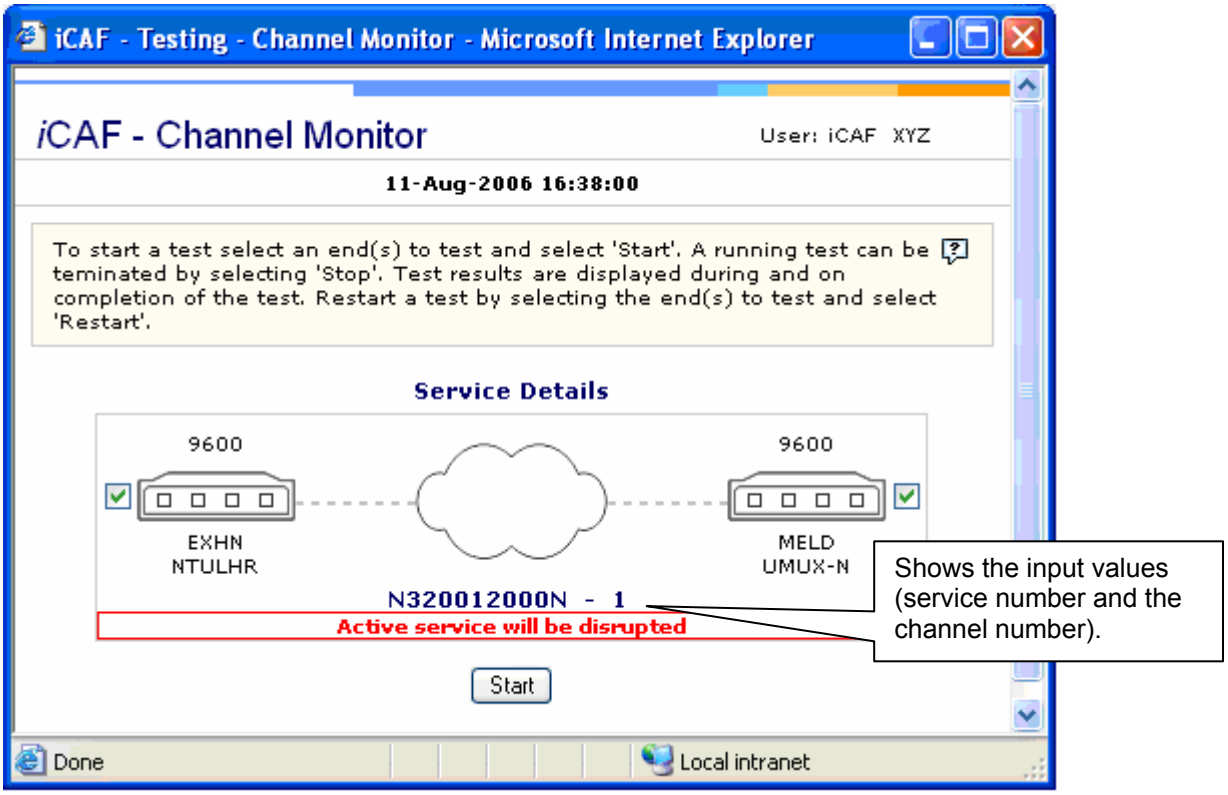

iCAF - Testing - Channel Monitor - Microsoft Internet Explorer
iCAF - Channel Monitor
User: iCAF XYZ
11-Aug-2006 16:38:00
To start a test select an end(s) to test and select 'Start'. A running test can be teminated by selecting 'Stop'. Test results are displayed during and on completion of the test. Restart a test by selecting the end(s) to test and select 'Restart'.
Service Details
9600
9600
EXHN
NTULHR
MELD
UMUX-N
N320012000N - 1
Active service will be disrupted
Start
Done
Local intranet
Shows the input values (service number and the channel number).

Figure 5.1.2 – Channel Monitor – Displays service details and awaits user command to begin test.

If you wish to proceed with the test, select the End(s) to Test then click on the *Start* button.

Test details will appear on the screen during the running stage as shown in the next figure.

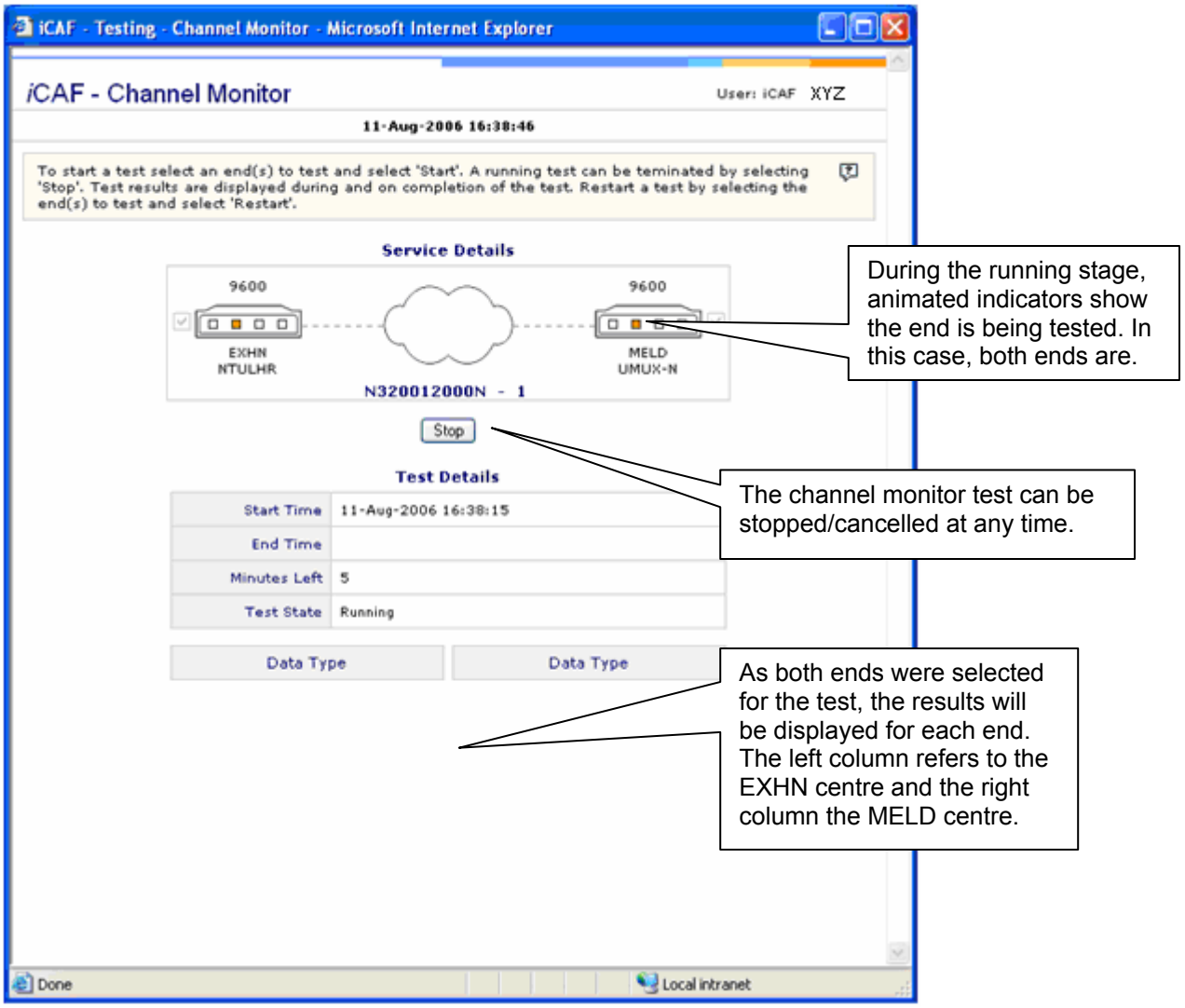

iCAF - Testing - Channel Monitor - Microsoft Internet Explorer
iCAF - Channel Monitor
User: iCAF XYZ
11-Aug-2006 16:38:46
To start a test select an end(s) to test and select 'Start'. A running test can be teminated by selecting 'Stop'. Test results are displayed during and on completion of the test. Restart a test by selecting the end(s) to test and select 'Restart'.
Service Details
9600
9600
EXHN
NTULHR
MELD
UMUX-N
N320012000N - 1
Stop
Test Details
Start Time 11-Aug-2006 16:38:15
End Time
Minutes Left 5
Test State Running
Data Type
Data Type
Done
Local intranet
During the running stage, animated indicators show the end is being tested. In this case, both ends are.
The channel monitor test can be stopped/cancelled at any time.
As both ends were selected for the test, the results will be displayed for each end. The left column refers to the EXHN centre and the right column the MELD centre.

Figure 5.1.3 – Channel Monitor – Test State - Running

The screen will show updated results during the course of the test at regular intervals.

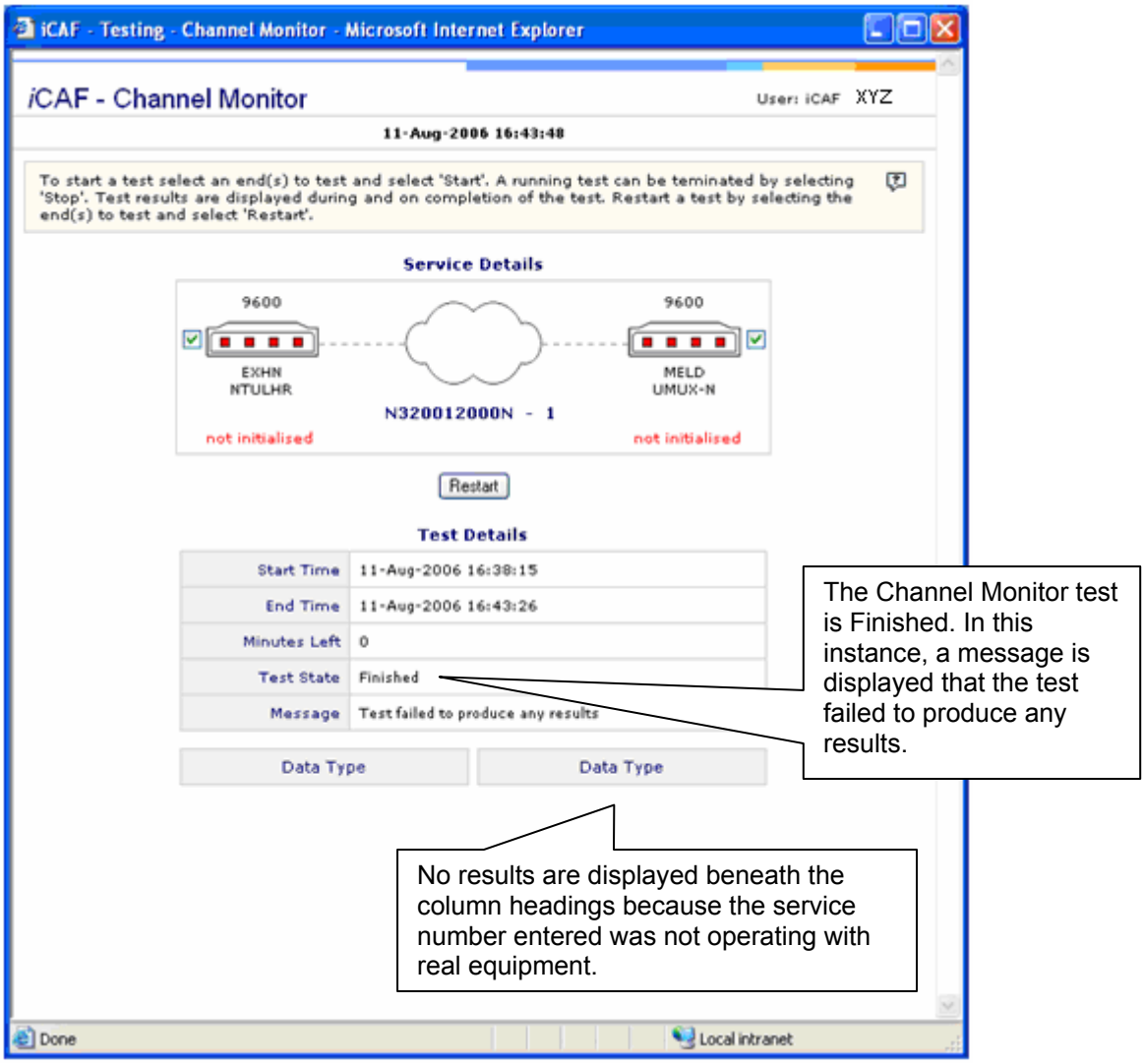

iCAF - Testing - Channel Monitor - Microsoft Internet Explorer
iCAF - Channel Monitor
User: iCAF XYZ
11-Aug-2006 16:43:48
To start a test select an end(s) to test and select 'Start'. A running test can be teminated by selecting 'Stop'. Test results are displayed during and on completion of the test. Restart a test by selecting the end(s) to test and select 'Restart'.
Service Details
9600
9600
EXHN
NTULHR
MELD
UMUX-N
N320012000N - 1
not initialised
not initialised
Restart
Test Details
Start Time 11-Aug-2006 16:38:15
End Time 11-Aug-2006 16:43:26
Minutes Left 0
Test State Finished
Message Test failed to produce any results
Data Type
Data Type
The Channel Monitor test is Finished. In this instance, a message is displayed that the test failed to produce any results.
No results are displayed beneath the column headings because the service number entered was not operating with real equipment.
Done
Local intranet

Figure 5.1.4 – Channel Monitor – Test State – Finished.

The test runs for a total of 5 minutes and the 'Minutes Left' is updated by the minute.

When the test is finished, the final lot of results are displayed and the time the test finished.

Channel Monitor – sample of error messages

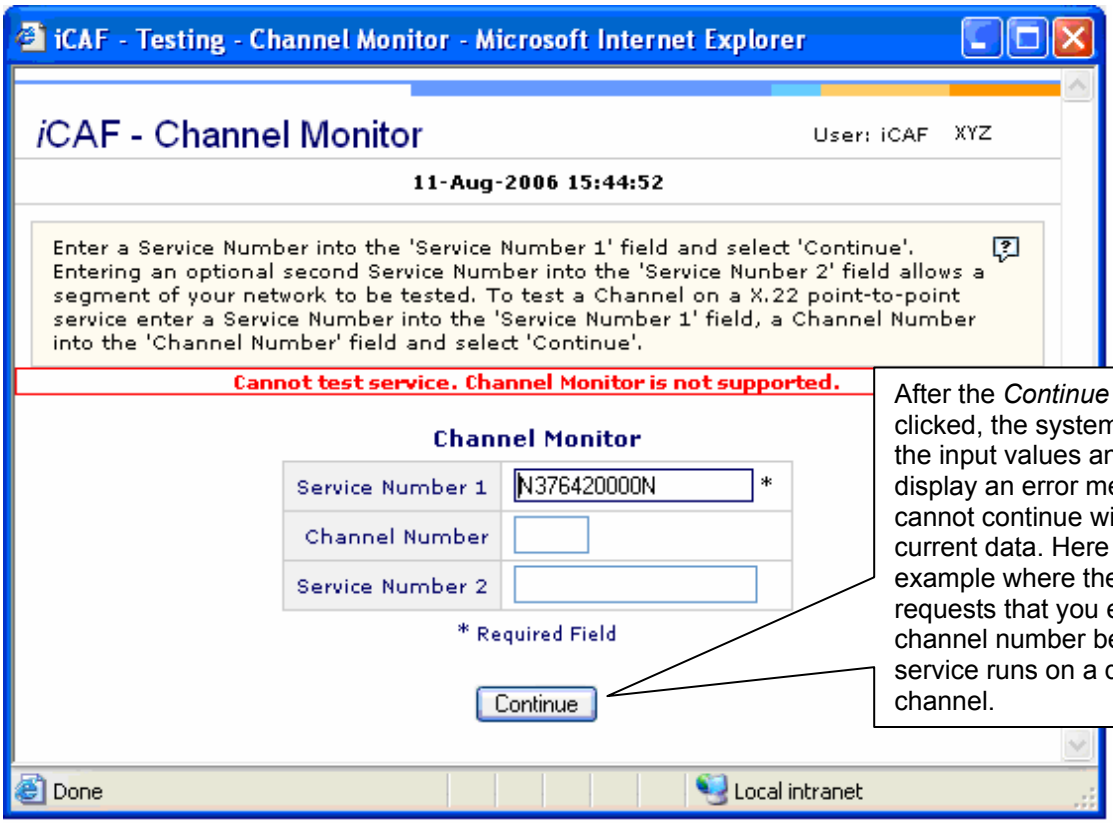

iCAF - Testing - Channel Monitor - Microsoft Internet Explorer
iCAF - Channel Monitor
User: iCAF XYZ
11-Aug-2006 15:44:52
Enter a Service Number into the 'Service Number 1' field and select 'Continue'. Entering an optional second Service Number into the 'Service Number 2' field allows a segment of your network to be tested. To test a Channel on a X.22 point-to-point service enter a Service Number into the 'Service Number 1' field, a Channel Number into the 'Channel Number' field and select 'Continue'.
Cannot test service. Channel Monitor is not supported.
Channel Monitor
Service Number 1
N376420000N
*
Channel Number
Service Number 2
* Required Field
Continue
Done
Local intranet
After the Continue button is clicked, the system processes the input values and will display an error message if it cannot continue with the current data. Here is an example where the system requests that you enter in the channel number because the service runs on a data link channel.

Figure 5.1.5 – Channel Monitor – Error Message – unsuitable service number entered.

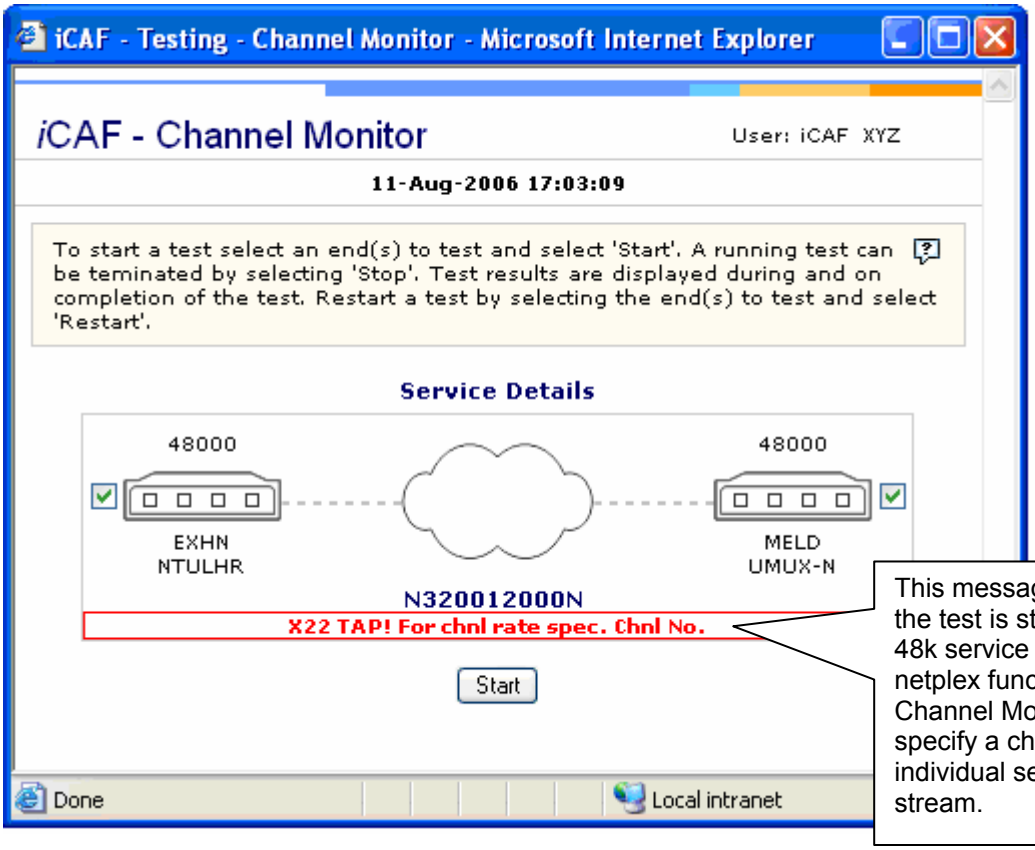

iCAF - Testing - Channel Monitor - Microsoft Internet Explorer
iCAF - Channel Monitor
User: iCAF XYZ
11-Aug-2006 17:03:09
To start a test select an end(s) to test and select 'Start'. A running test can be teminated by selecting 'Stop'. Test results are displayed during and on completion of the test. Restart a test by selecting the end(s) to test and select 'Restart'.
Service Details
48000
48000
EXHN
NTULHR
MELD
UMUX-N
N320012000N
X22 TAP! For chnl rate spec. Chnl No.
Start
Done
Local intranet
This message is to inform you that if the test is started it will test the whol 48k service that is connected to a netplex function. Reinvoke the Channel Monitor test if you want to specify a channel number to test an individual service within the 48k stream.

Figure 5.1.6 – Channel Monitor – warning message.

Field Descriptions

Input data

Service Number(s)

A single service number or two service numbers or a service number/channel number combination.

End to Test

Select A-end, B-end or both by selecting / deselecting the tick boxes.

Output fields - 'Running' Results

Start Time

The date and time the Channel Monitor test began.

End Time

The date and time the Channel Monitor test ended.

Minutes Left

Every test has a duration of 5 minutes. This field updates the number of minutes left by the minute. When the minutes left is equal to zero, the test state is finished.

Test State

There are two Test States: Running and Finished.

Message

If the test is stopped ahead of time (by clicking the stop button) the Message field will appear and display 'Stopped', otherwise it is not displayed in the Test Details – Statistics table.

Output fields - 'Finished' Results

All following rows in the table (maximum 60) contain Customer Data, Network Commands or Network statuses. The results are displayed in chronological order (the most recent results towards the top).

Customer Data
Some typical Customer Data are:

S = 1	Active data
S = 0/1	Active data
S = 1	All zeros

Network Commands
Some typical Network Commands are:

S = 0	NTU Loop
S = 0	MJE Thru-conn
Sig	NTU Loop 64K

Network Statuses

Some typical Network Statuses are:

- Loss of alignment
- TAS eqp failure
- Loss of sync

5.2. Test Attach

Description

The 'Test Attach' function attaches you to the last test run (within last 6 hours).

Usage

When the ‘Test Attach’ function is accessed it will display the finished results page of the last test that was run, that is, the last test conducted that had at least reached a Test State of running (tests results are displayed for those that were stopped before completion).

Below is the screen shown when the Test Attach link is clicked. The screen opens the last testing function that was run. There is no indication that it was accessed through the test attach function. This screen behaves like it would when the test is normally carried out and allows the user to restart the test.

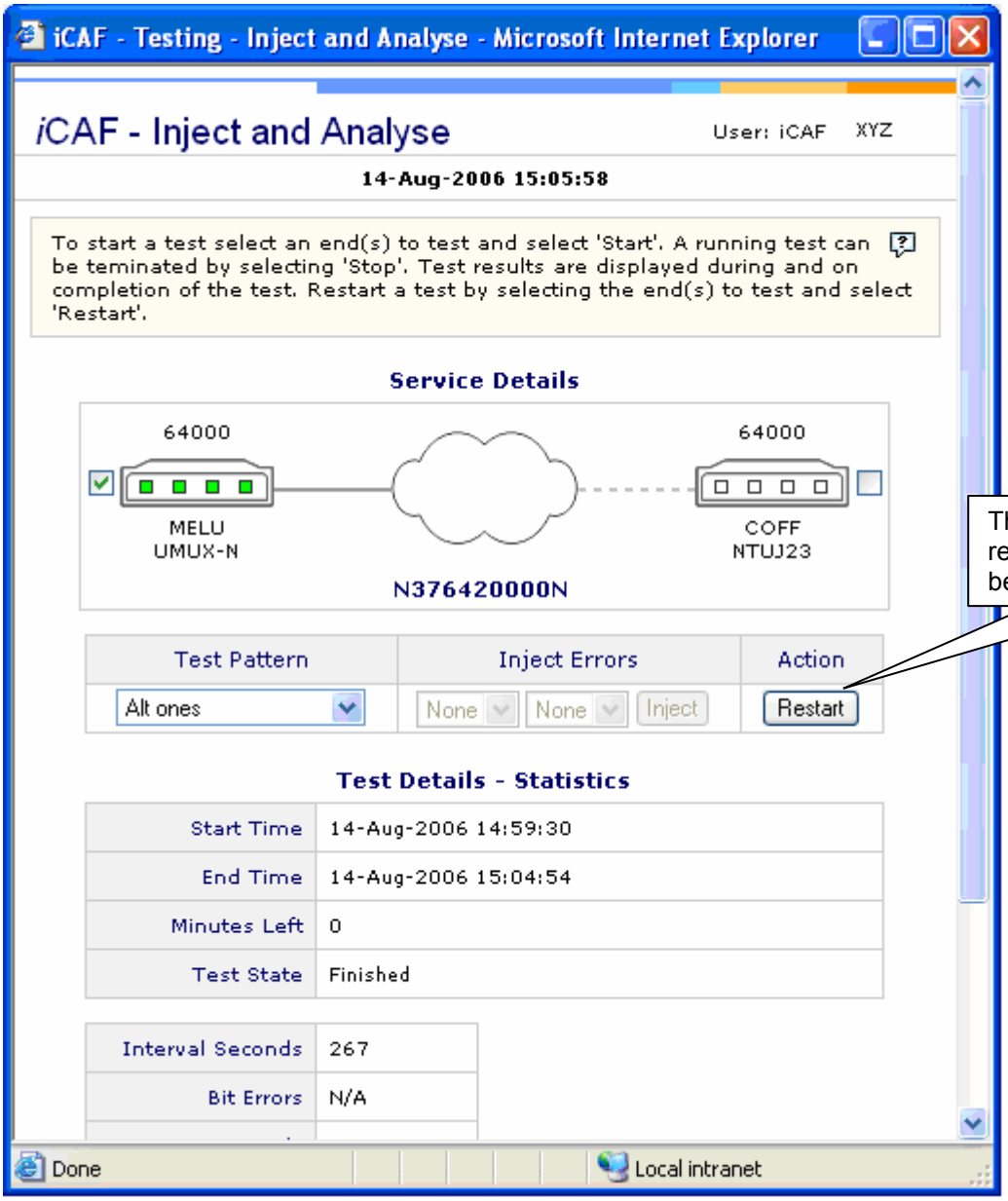


Figure 5.2.1 – Test Attach screen shows the last test that was carried out.

If no tests were run within the last 6 hours the following page will be displayed.

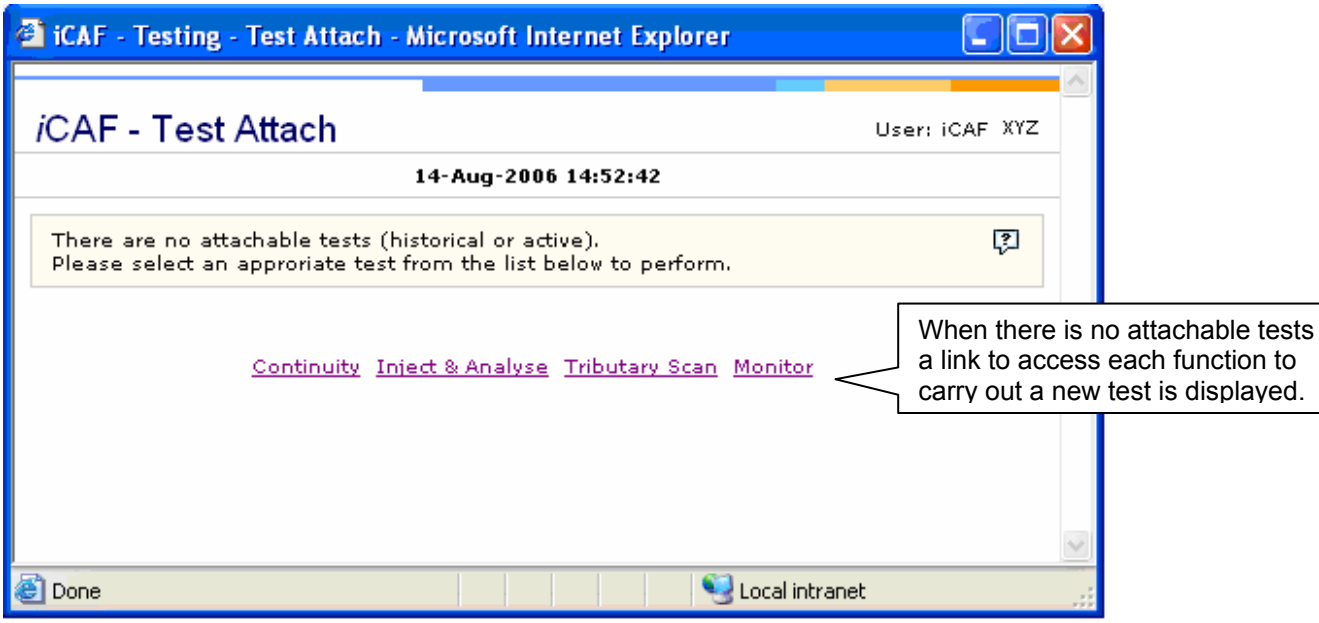

iCAF - Testing - Test Attach - Microsoft Internet Explorer
iCAF - Test Attach
User: iCAF XYZ
14-Aug-2006 14:52:42
There are no attachable tests (historical or active).
Please select an approriate test from the list below to perform.
Continuity Inject & Analyse Tributary Scan Monitor
When there is no attachable tests a link to access each function to carry out a new test is displayed.
Done
Local intranet

Figure 5.2.2 – Test Attach function with no attachable tests (historical or active).

6. Enquiries

6.1. Overview

The functions described in this chapter allow you to make enquires on information held by MACS. You are restricted to viewing data pertaining to your own services.

6.2. Display Service Network

You are able to display your service network components, giving a diagrammatic representation of the relationship between service components. It shows service numbers, equipment functions and termination equipment. It also shows centre names when the service terminates on a function within that centre or equipment within that centre.

Display All Services

The 'Display All Services' function displays a summary of all your services and is a gateway to other functions.

Display Service Details

The 'Display Service Details' function displays details of an individual service. Details include: Owner Service Number, Service Status, Speed, A-B End Interface type, A-B End Private Centre and Service Description.

Display All Multiplex Links

The 'Display All Multiplex Links' function displays a summary of multiplex links that terminate in a Private Terminal Centre (PTC) owned by you.

Display Multiplex Link Content

The 'Display Multiplex Link Content' function displays all data links and N*64K services on a multiplex link. For information to be displayed the 'B' end of the link must terminate in a private terminal centre belonging to you. In any other case no information is provided.

Display All Data Links

The 'Display All Data Links' function displays a summary of data links that terminate in a Private Terminal Centre (PTC) owned by you.

Display Data Link Content

The 'Display Data Link Content' function displays all services on a data link that terminates in one of your private terminal centres. Information provided includes service status and service speed.

Below is a diagram of the Enquiries main menu which contains a short description of each of the functions in this category.

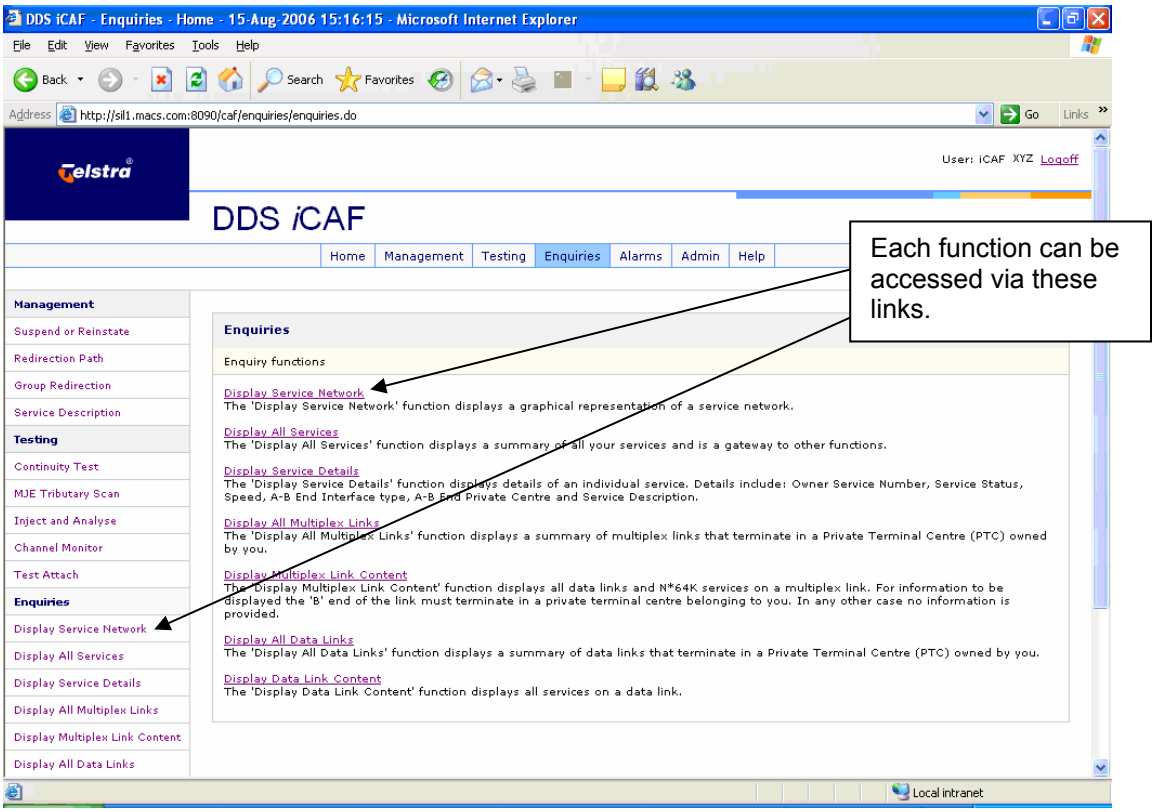

DDS iCAF - Enquiries - Home - 15-Aug-2006 15:16:15 - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://sil1.macs.com:8090/caf/enquiries/enquiries.do
Go Links
Telstra
User: iCAF XYZ Logoff
DDS iCAF
Home Management Testing Enquiries Alarms Admin Help
Management
Suspend or Reinstate
Redirection Path
Group Redirection
Service Description
Testing
Continuity Test
MJE Tributary Scan
Inject and Analyse
Channel Monitor
Test Attach
Enquiries
Display Service Network
Display All Services
Display Service Details
Display All Multiplex Links
Display Multiplex Link Content
Display All Data Links
Enquiries
Enquiry functions
Display Service Network
The 'Display Service Network' function displays a graphical representation of a service network.
Display All Services
The 'Display All Services' function displays a summary of all your services and is a gateway to other functions.
Display Service Details
The 'Display Service Details' function displays details of an individual service. Details include: Owner Service Number, Service Status, Speed, A-B End Interface type, A-B End Private Centre and Service Description.
Display All Multiplex Links
The 'Display All Multiplex Links' function displays a summary of multiplex links that terminate in a Private Terminal Centre (PTC) owned by you.
Display Multiplex Link Content
The 'Display Multiplex Link Content' function displays all data links and N*64K services on a multiplex link. For information to be displayed the 'B' end of the link must terminate in a private terminal centre belonging to you. In any other case no information is provided.
Display All Data Links
The 'Display All Data Links' function displays a summary of data links that terminate in a Private Terminal Centre (PTC) owned by you.
Display Data Link Content
The 'Display Data Link Content' function displays all services on a data link.
Local intranet
Each function can be accessed via these links.

Figure 6.2.1 – Enquiries page main menu.

6.3. Display Service Network

Description

This function allows you to display a service network, giving a diagrammatic representation of the relationship between service components. It shows service numbers and termination details

Usage

Enter a service number and click on the *Continue* button.

Enquiries - Display Service Network
Enter the service number to display and select 'Continue'. (service must be in 'inuse' or 'suspended' status)
Service Details
Service Number
Continue

Figure 6.3.1 – Display Service Network interface.

The function responds by displaying termination details and, where relevant, the connecting parent/tributary services with the details of their remote ends.

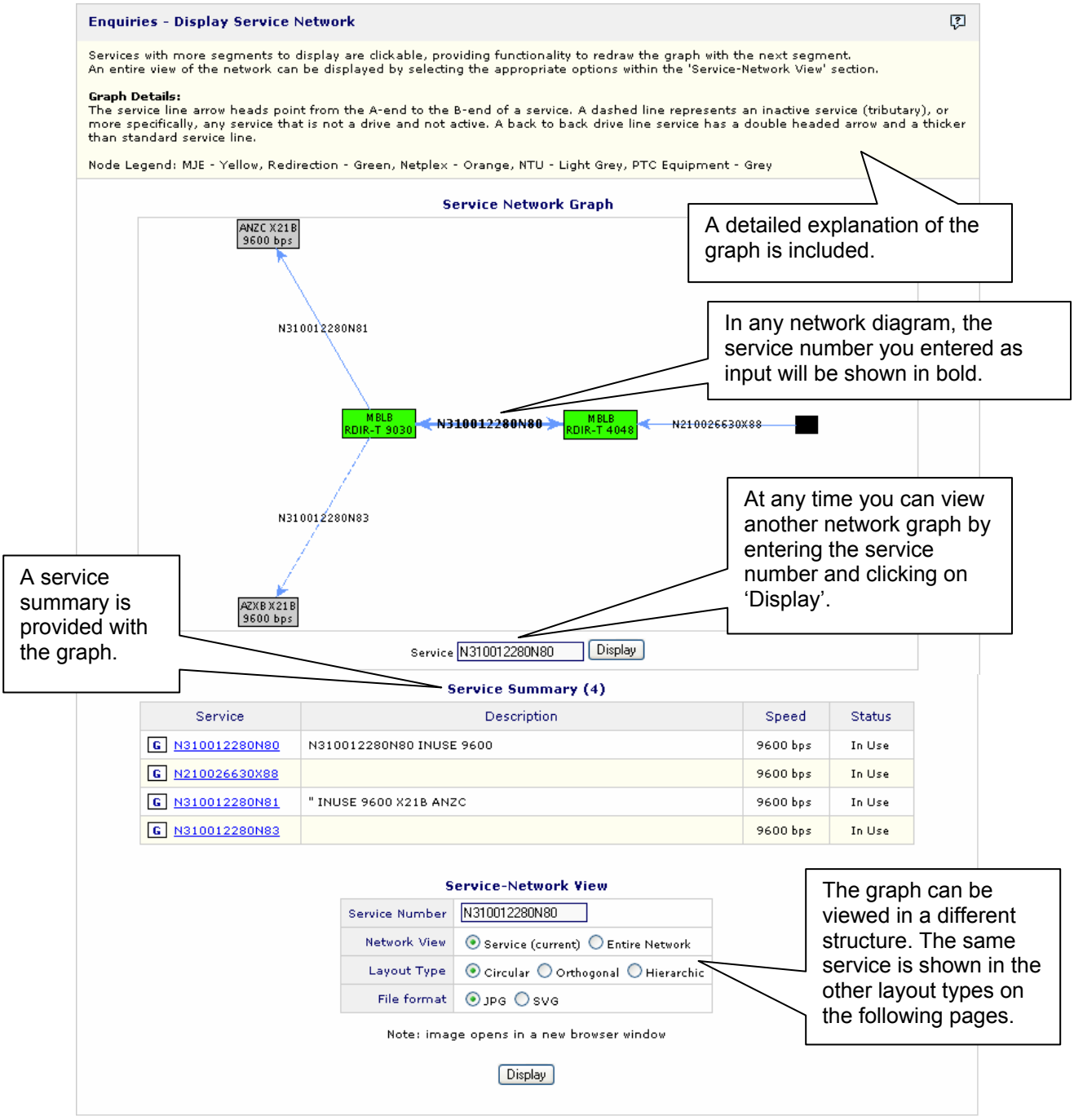

Enquiries - Display Service Network
Services with more segments to display are clickable, providing functionality to redraw the graph with the next segment.
An entire view of the network can be displayed by selecting the appropriate options within the 'Service-Network View' section.
Graph Details:
The service line arrow heads point from the A-end to the B-end of a service. A dashed line represents an inactive service (tributary), or more specifically, any service that is not a drive and not active. A back to back drive line service has a double headed arrow and a thicker than standard service line.
Node Legend: MJE - Yellow, Redirection - Green, Netplex - Orange, NTU - Light Grey, PTC Equipment - Grey
Service Network Graph
ANZC X21B 9600 bps
N310012280N81
MBLB RDIR-T 9030
N310012280N80
MBLB RDIR-T 4048
N210026630X88
N310012280N83
AZXB X21B 9600 bps
Service N310012280N80 Display
Service Summary (4)
Service
Description
Speed
Status
N310012280N80
N310012280N80 INUSE 9600
9600 bps
In Use
N210026630X88
9600 bps
In Use
N310012280N81
" INUSE 9600 X21B ANZC
9600 bps
In Use
N310012280N83
9600 bps
In Use
Service-Network View
Service Number
N310012280N80
Network View
Service (current)
Entire Network
Layout Type
Circular
Orthogonal
Hierarchic
File format
JPG
SVG
Note: image opens in a new browser window
Display
A detailed explanation of the graph is included.
In any network diagram, the service number you entered as input will be shown in bold.
At any time you can view another network graph by entering the service number and clicking on 'Display'.
A service summary is provided with the graph.
The graph can be viewed in a different structure. The same service is shown in the other layout types on the following pages.

Figure 6.3.2 – Display Service Network function.

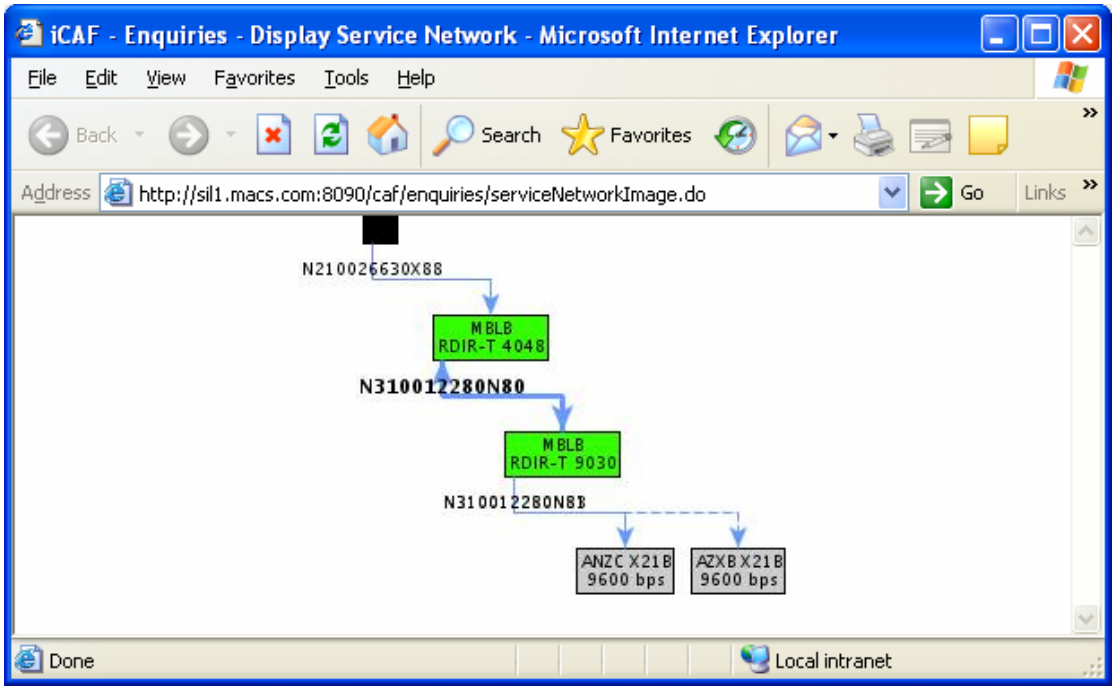


Figure 6.3.3 – Service Network Graph - Orthogonal view

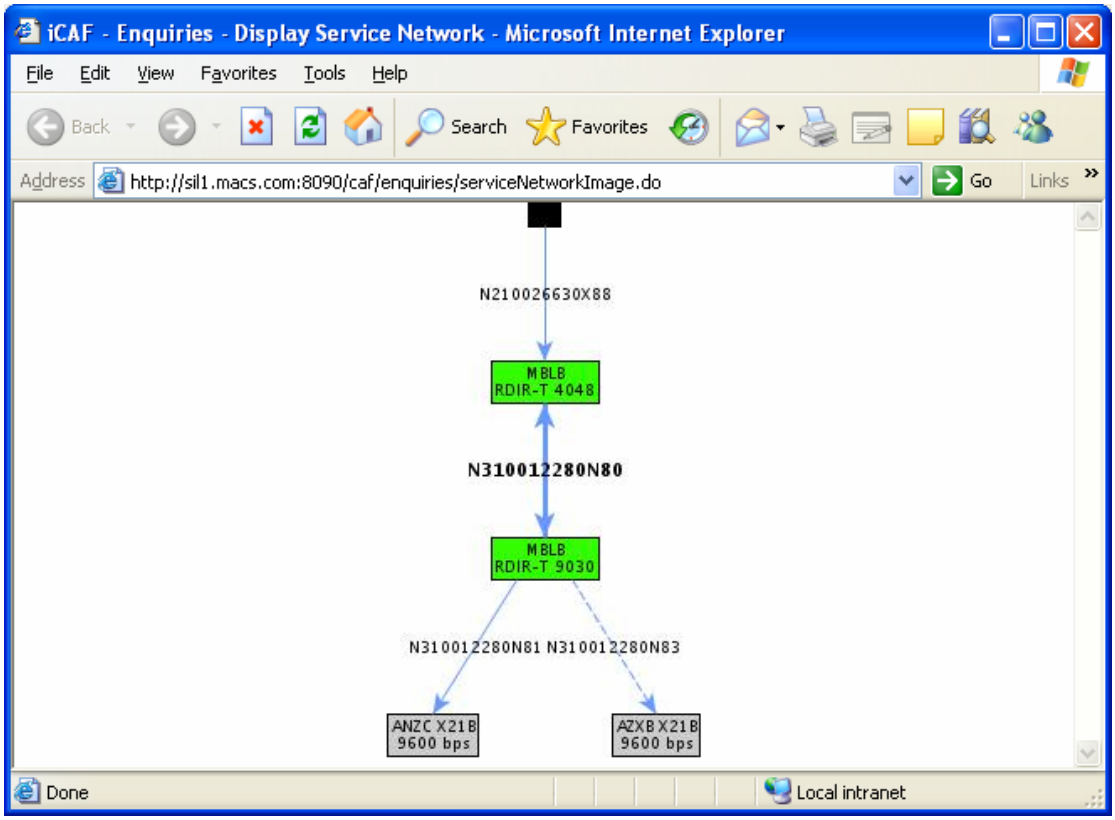


Figure 6.3.4 – Service Network Graph - Hierarchic view

If a tributary service number is entered instead of the drive line service number, the network graph will show a smaller portion than what is displayed with a drive line service, as the drive line service could be connected to 2 redirection functions.

Below is a network graph of the same redirection function used in the graph shown previously but with a tributary service number entered.

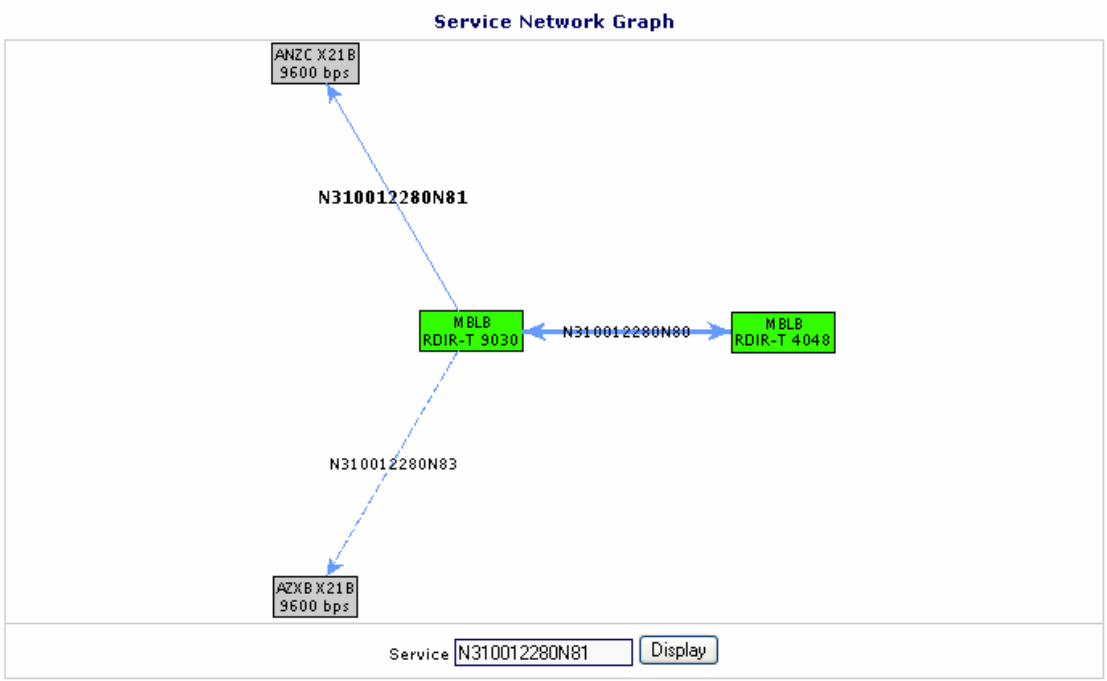


Figure 6.3.5 – Service network graph- circular view, with a tributary service number as the input value.

The following figure is a service network graph – circular view, which is an example of a service that has a large number of services and tributaries connected to it.

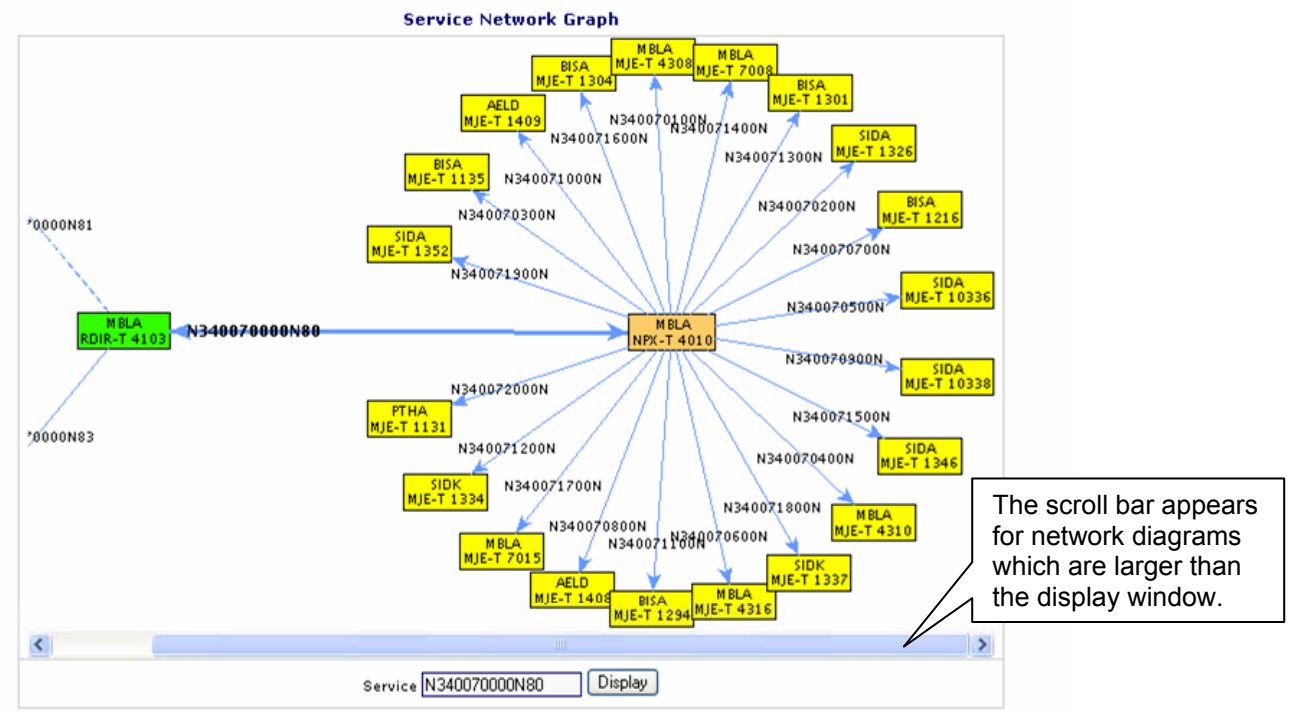


Figure 6.3.6 – A service network graph – circular view with more services and components.

Display Network Graph – sample of error messages

If the display button is clicked and the service number field is blank an error message is displayed as shown below.

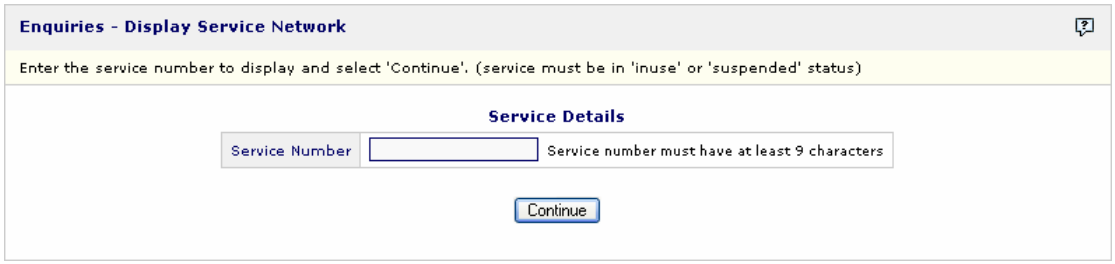

Enquiries - Display Service Network
Enter the service number to display and select 'Continue'. (service must be in 'inuse' or 'suspended' status)
Service Details
Service Number
Service number must have at least 9 characters
Continue

Figure 6.3.7 – Error message is displayed if no service number is entered and the command button is clicked.

You can only view a service number's network graph if it is in-use or suspended status.

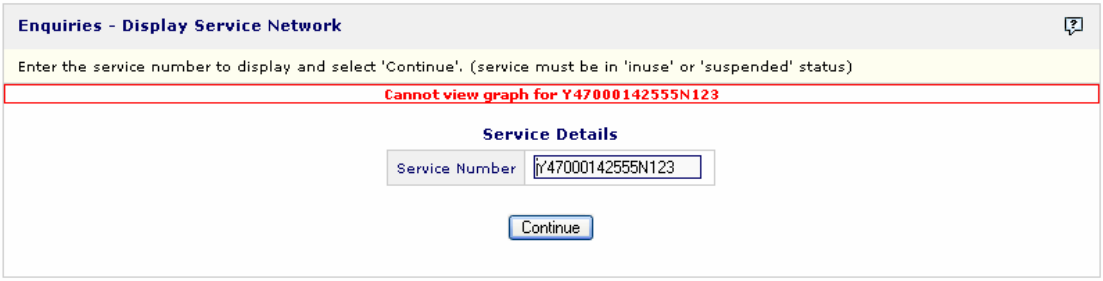

Enquiries - Display Service Network
Enter the service number to display and select 'Continue'. (service must be in 'inuse' or 'suspended' status)
Cannot view graph for Y47000142555N123
Service Details
Service Number
Y47000142555N123
Continue

Figure 6.3.8 – Error message is displayed if you want to view the network graph of a service number which is not in-use or suspended status.

6.4. Display All Services

Description

The 'Display All Services' function displays a summary of all your services and is a gateway to other functions.

Usage

To display all services that belong to you, the customer, click on ‘Display All Services’ located on the navigation bar on the left side of the screen or click on ‘Enquiries’ in the menu bar located at the top of the page to open up the main menu screen where the link ‘Display All Services’ is displayed.

The Display All Services function screen will open like the one shown below.

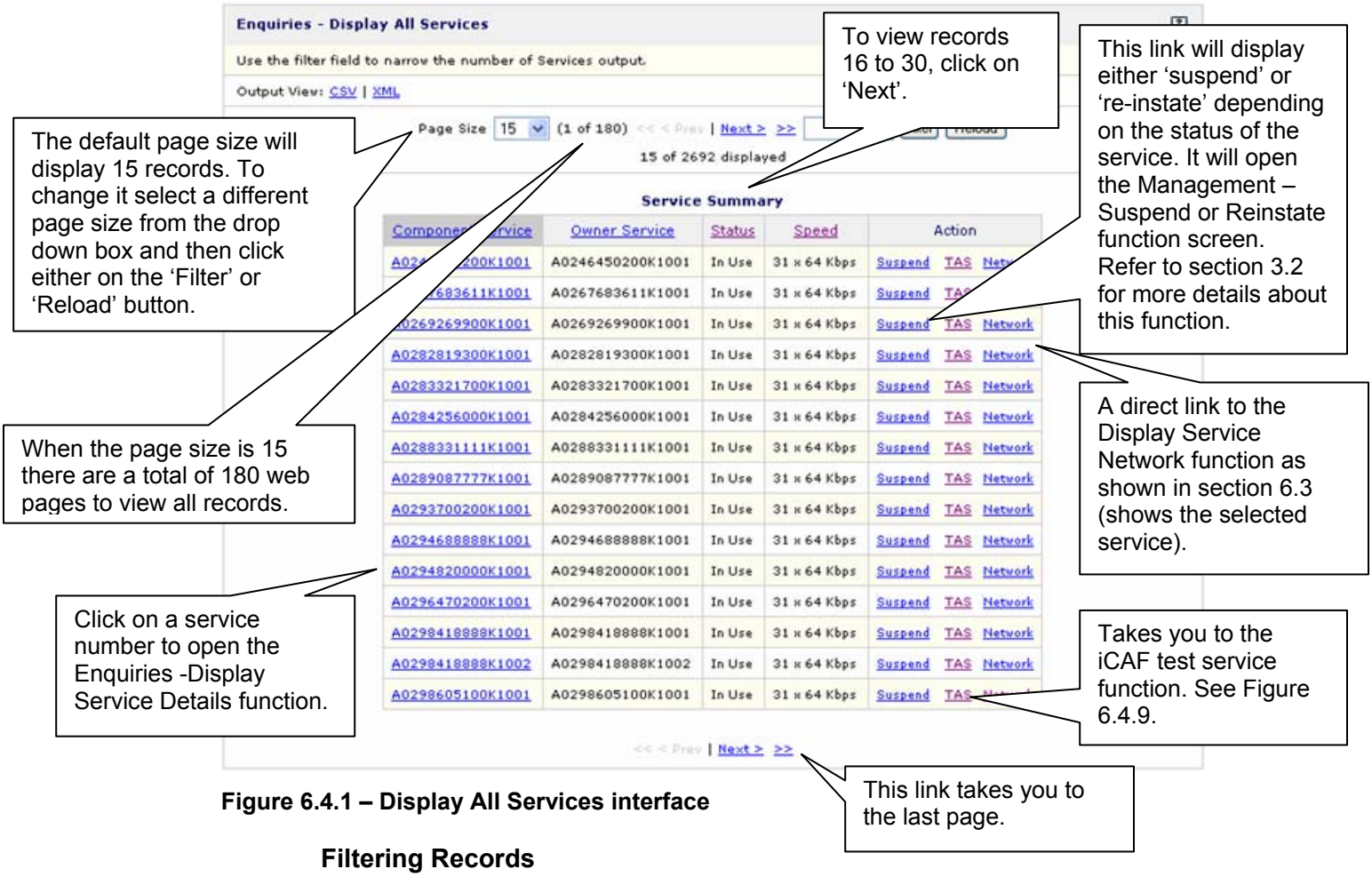

Enquiries - Display All Services
Use the filter field to narrow the number of Services output.
Output View: CSV | XML
Page Size 15 (1 of 180) << < Prev | Next > >>
15 of 2692 displayed
Service Summary
Owner Service
Status
Speed
Action
A0246450200K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0267683611K1001 In Use 31 x 64 Kbps Suspend TAS
A0269269900K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0282819300K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0283321700K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0284256000K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0288331111K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0289087777K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0293700200K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0294688888K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0294820000K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0296470200K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0298418888K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0298418888K1002 In Use 31 x 64 Kbps Suspend TAS Network
A0298605100K1001 In Use 31 x 64 Kbps Suspend TAS
<< < Prev | Next > >>
To view records 16 to 30, click on ‘Next’.
This link will display either ‘suspend’ or ‘re-instate’ depending on the status of the service. It will open the Management – Suspend or Reinstate function screen. Refer to section 3.2 for more details about this function.
The default page size will display 15 records. To change it select a different page size from the drop down box and then click either on the ‘Filter’ or ‘Reload’ button.
When the page size is 15 there are a total of 180 web pages to view all records.
A direct link to the Display Service Network function as shown in section 6.3 (shows the selected service).
Click on a service number to open the Enquiries -Display Service Details function.
Takes you to the iCAF test service function. See Figure 6.4.9.
This link takes you to the last page.

Figure 6.4.1 – Display All Services interface

Filtering Records

By default, all services that belong to a customer are displayed when the ‘Display All Services’ function is clicked. To narrow the number of services displayed, enter data into the text field and click on the Filter button. Any data that matches the entry will be returned. In the example above, the filtering will be conducted across all 2692 records.

Below are a few examples of how to use this feature.

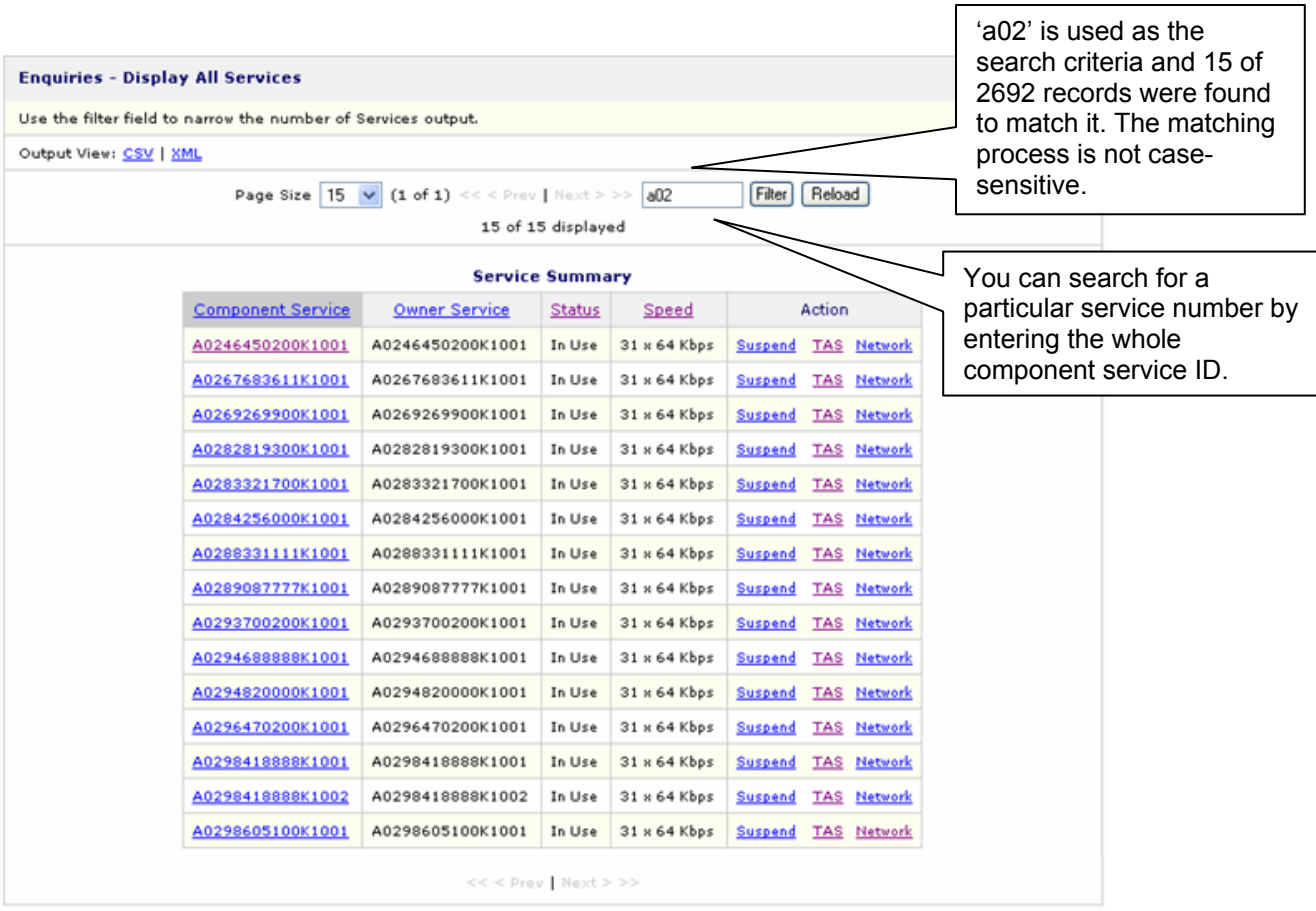

Enquiries - Display All Services
Use the filter field to narrow the number of Services output.
Output View: CSV | XML
Page Size 15 (1 of 1) << < Prev | Next > >> a02 Filter Reload
15 of 15 displayed
Service Summary
Component Service
Owner Service
Status
Speed
Action
A0246450200K1001 A0246450200K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0267683611K1001 A0267683611K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0269269900K1001 A0269269900K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0282819300K1001 A0282819300K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0283321700K1001 A0283321700K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0284256000K1001 A0284256000K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0288331111K1001 A0288331111K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0289087777K1001 A0289087777K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0293700200K1001 A0293700200K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0294688888K1001 A0294688888K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0294820000K1001 A0294820000K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0296470200K1001 A0296470200K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0298418888K1001 A0298418888K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0298418888K1002 A0298418888K1002 In Use 31 x 64 Kbps Suspend TAS Network
A0298605100K1001 A0298605100K1001 In Use 31 x 64 Kbps Suspend TAS Network
<< < Prev | Next > >>
'a02' is used as the search criteria and 15 of 2692 records were found to match it. The matching process is not case-sensitive.
You can search for a particular service number by entering the whole component service ID.

Figure 6.4.2 – An example of filtering where the service numbers matched the search criteria.

When a search is conducted (whether the Filter or Reload button is clicked), a search across all 5 columns (component service, owner service, status, speed and action) for each record occurs.

Below is an example of records returned that have a match in one or more columns. This is because the record is returned as soon as the first match is found and does not look at the remaining record's data even though it may have a match as well.

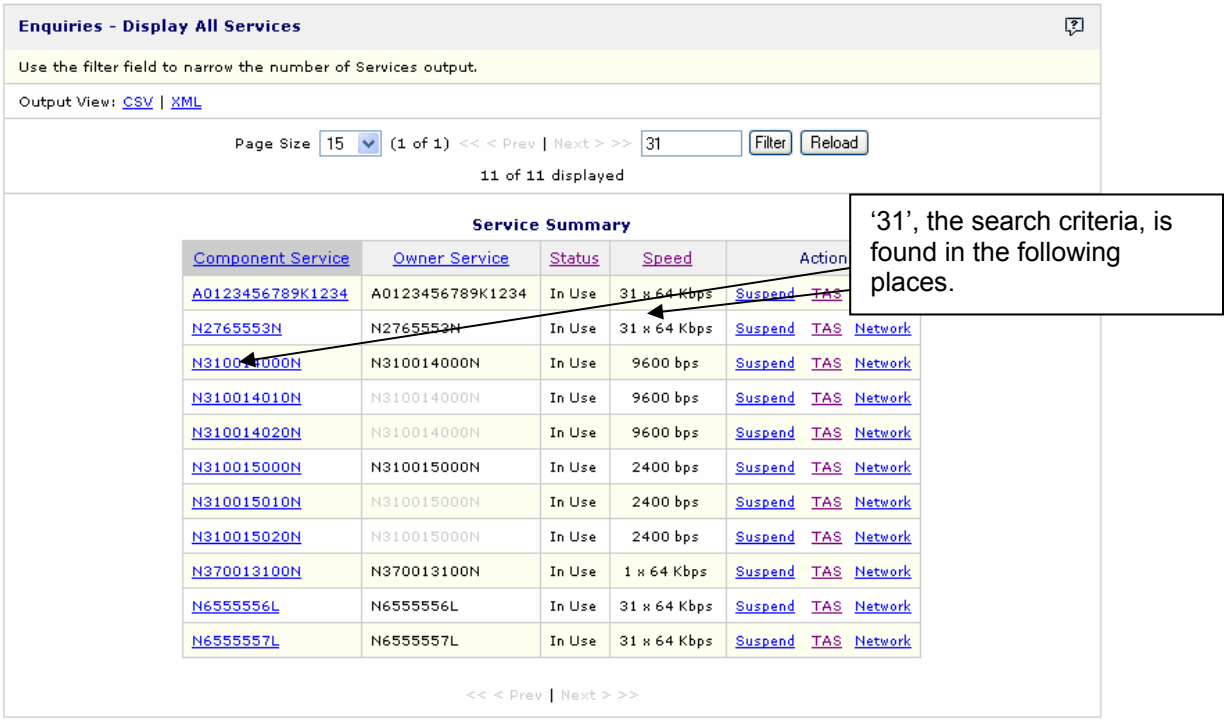

Enquiries - Display All Services
Use the filter field to narrow the number of Services output.
Output View: CSV | XML
Page Size 15 (1 of 1) << < Prev | Next > >> 31 Filter Reload
11 of 11 displayed
Service Summary
Component Service | Owner Service | Status | Speed | Action
A0123456789K1234 | A0123456789K1234 | In Use | 31 x 64 Kbps | Suspend TAS
N2765553N | N2765553N | In Use | 31 x 64 Kbps | Suspend TAS Network
N310014000N | N310014000N | In Use | 9600 bps | Suspend TAS Network
N310014010N | N310014000N | In Use | 9600 bps | Suspend TAS Network
N310014020N | N310014000N | In Use | 9600 bps | Suspend TAS Network
N310015000N | N310015000N | In Use | 2400 bps | Suspend TAS Network
N310015010N | N310015000N | In Use | 2400 bps | Suspend TAS Network
N310015020N | N310015000N | In Use | 2400 bps | Suspend TAS Network
N370013100N | N370013100N | In Use | 1 x 64 Kbps | Suspend TAS Network
N6555556L | N6555556L | In Use | 31 x 64 Kbps | Suspend TAS Network
N6555557L | N6555557L | In Use | 31 x 64 Kbps | Suspend TAS Network
<< < Prev | Next > >>
'31', the search criteria, is found in the following places.

Figure 6.4.3 – An example of filtering where the search criteria has a match in different columns.

In the example below, 'sus' was entered as the search criteria. Of the 2629 records, 4 were returned as a match.

Any record that has 'sus', whether it have data before or after it, is a match and will be displayed.

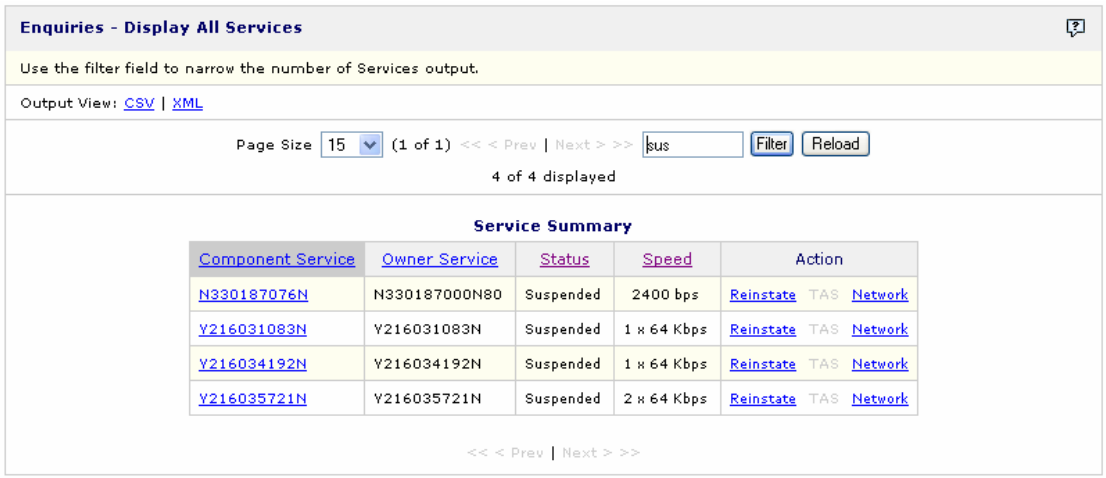

Enquiries - Display All Services
Use the filter field to narrow the number of Services output.
Output View: CSV | XML
Page Size 15 (1 of 1) << < Prev | Next > >> sus Filter Reload
4 of 4 displayed
Service Summary
Component Service | Owner Service | Status | Speed | Action
N330187076N | N330187000N80 | Suspended | 2400 bps | Reinstate TAS Network
Y216031083N | Y216031083N | Suspended | 1 x 64 Kbps | Reinstate TAS Network
Y216034192N | Y216034192N | Suspended | 1 x 64 Kbps | Reinstate TAS Network
Y216035721N | Y216035721N | Suspended | 2 x 64 Kbps | Reinstate TAS Network
<< < Prev | Next > >>

Figure 6.4.4 – An example of filtering which is intended to match a known status value - 'suspended'.

Difference between Filter and Reload command buttons

In the example we have been using, this customer has a total of 2692 records. The first time the filter button is used and search criteria was entered, it will search across all 2692 records for a match with the search criteria.

If 200 records were returned (only 15 are displayed on the screen at a time) and another search criteria was entered and the filter button was clicked again, the search is conducted across the 200 records only and not the entire 2692 records. Each time this process occurs, it will look for matches amongst the records that were previously returned.

The reload button; however, will search for matches amongst the entire record set that belongs to a customer, regardless of the amount of records that are currently being displayed that matched the previous search.

So, at any time during your filtering process, if you have an empty text field and click on the Reload button, the entire record set will be returned (all 2692). If you currently have a maximum of 4 records displayed and you have an empty text field and click on the Filter button, the same 4 records will be returned.

An error message, as the one shown below, is displayed if the search criteria conflicts with the searching process. In this example, an asterisk was entered as a starting character which is not acceptable as input data.

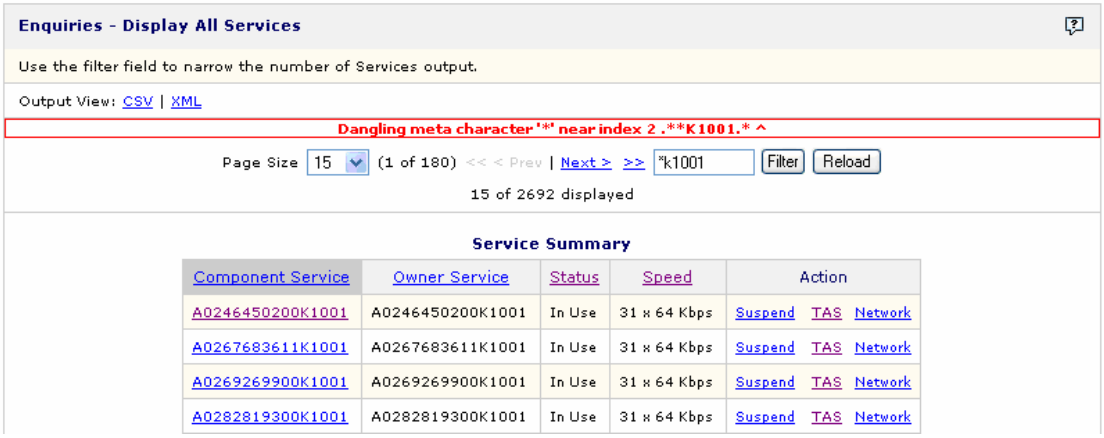

Enquiries - Display All Services
Use the filter field to narrow the number of Services output.
Output View: CSV | XML
Dangling meta character '*' near index 2 .**K1001.* ^
Page Size 15 (1 of 180) << < Prev | Next > >> *k1001 Filter Reload
15 of 2692 displayed
Service Summary
Component Service
Owner Service
Status
Speed
Action
A0246450200K1001 A0246450200K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0267683611K1001 A0267683611K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0269269900K1001 A0269269900K1001 In Use 31 x 64 Kbps Suspend TAS Network
A0282819300K1001 A0282819300K1001 In Use 31 x 64 Kbps Suspend TAS Network

Figure 6.4.5 – Error message if input conflicts with search criteria.

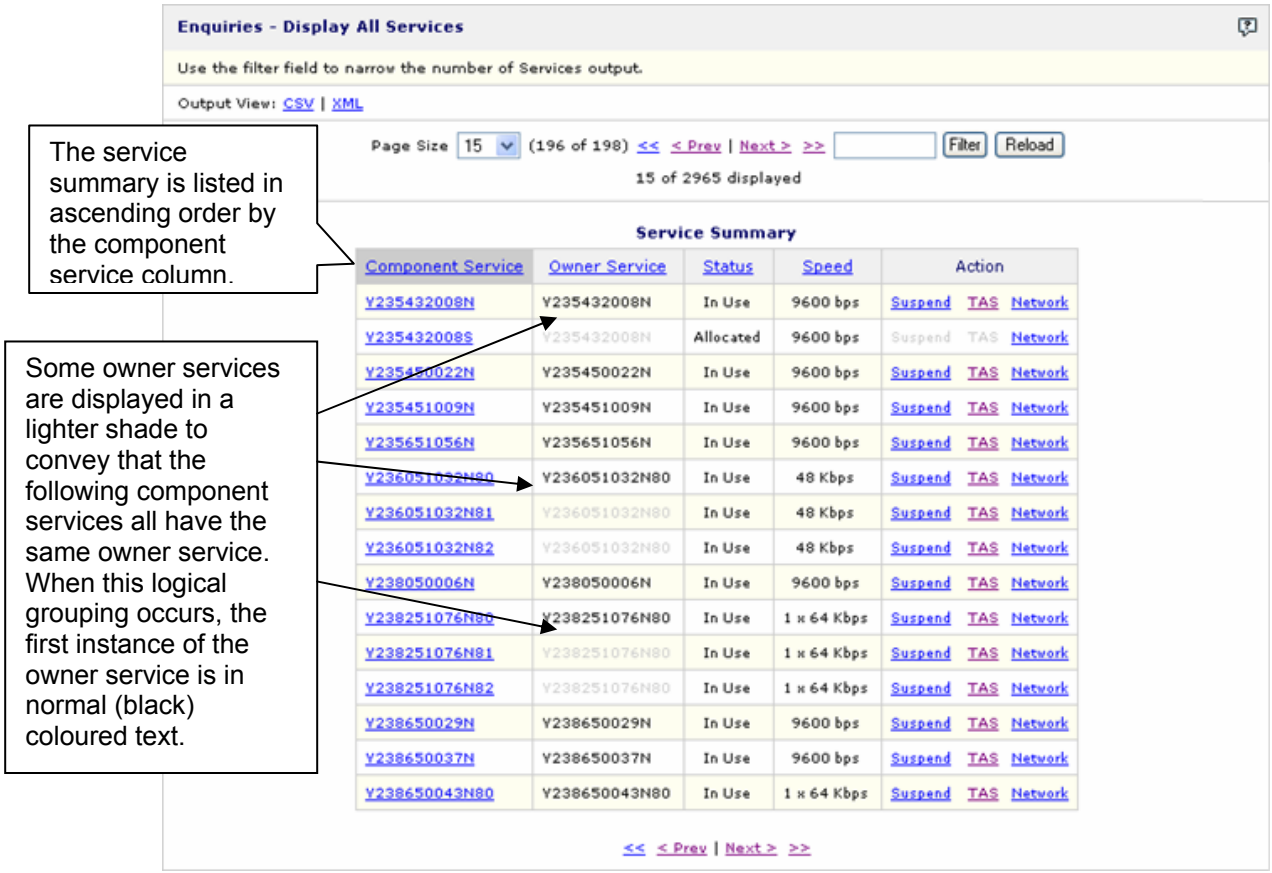
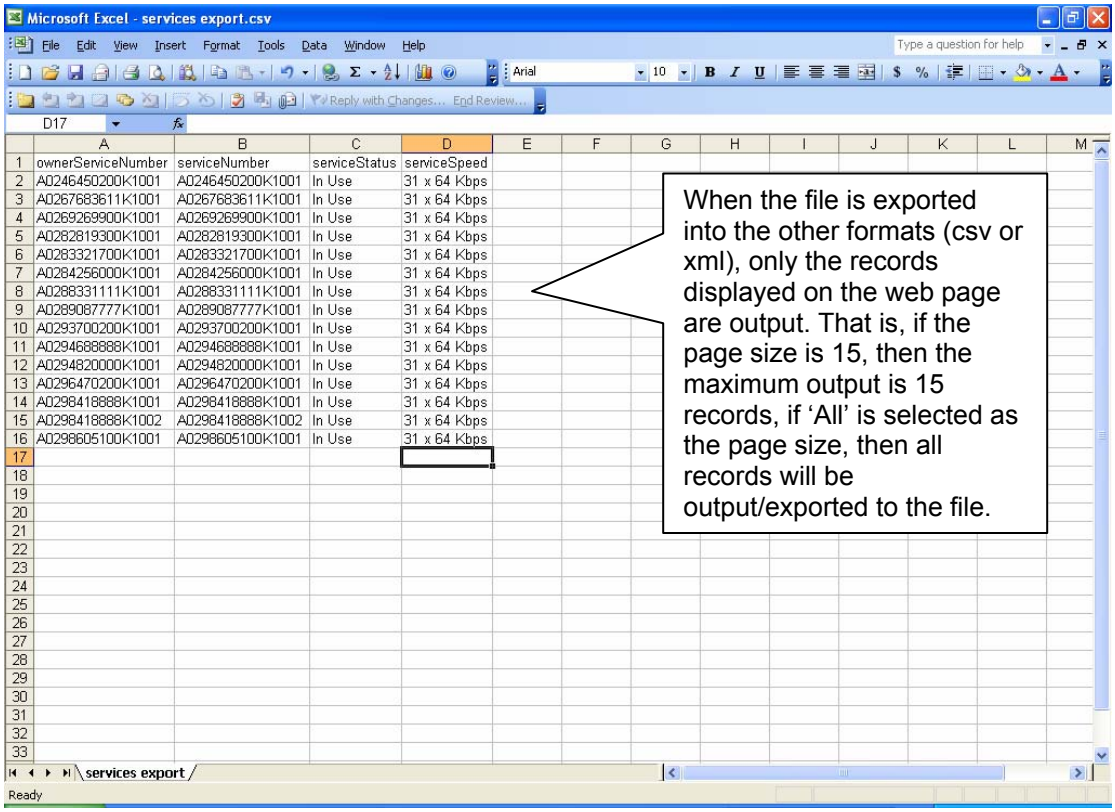


Figure 6.4.6 – Enquiries – Display All Services with some owner services greyed to signify groupings.

Output view

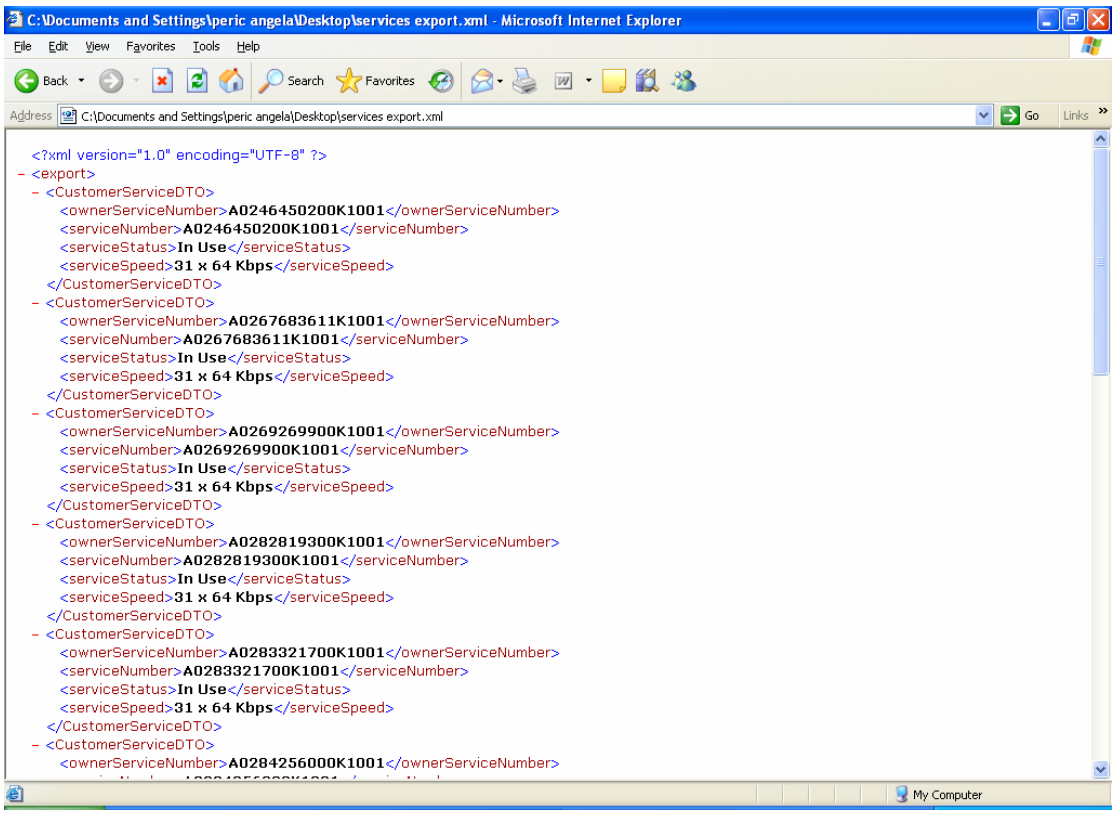
The Display All Services data can be exported into two other file formats – xml (Extensible Markup Language) and cvs (comma separated values).

Below are screen shots of the same data used in Figure 6.4.1 in the other file formats.


Microsoft Excel - services export.csv
When the file is exported into the other formats (csv or xml), only the records displayed on the web page are output. That is, if the page size is 15, then the maximum output is 15 records, if 'All' is selected as the page size, then all records will be output/exported to the file.
services export
Ready

	A	B	C	D
1	ownerServiceNumber	serviceNumber	serviceStatus	serviceSpeed
2	A0246450200K1001	A0246450200K1001	In Use	31 x 64 Kbps
3	A0267683611K1001	A0267683611K1001	In Use	31 x 64 Kbps
4	A0269269900K1001	A0269269900K1001	In Use	31 x 64 Kbps
5	A0282819300K1001	A0282819300K1001	In Use	31 x 64 Kbps
6	A0283321700K1001	A0283321700K1001	In Use	31 x 64 Kbps
7	A0284256000K1001	A0284256000K1001	In Use	31 x 64 Kbps
8	A0288331111K1001	A0288331111K1001	In Use	31 x 64 Kbps
9	A0289087777K1001	A0289087777K1001	In Use	31 x 64 Kbps
10	A0293700200K1001	A0293700200K1001	In Use	31 x 64 Kbps
11	A0294688888K1001	A0294688888K1001	In Use	31 x 64 Kbps
12	A0294820000K1001	A0294820000K1001	In Use	31 x 64 Kbps
13	A0296470200K1001	A0296470200K1001	In Use	31 x 64 Kbps
14	A0298418888K1001	A0298418888K1001	In Use	31 x 64 Kbps
15	A0298418888K1002	A0298418888K1002	In Use	31 x 64 Kbps
16	A0298605100K1001	A0298605100K1001	In Use	31 x 64 Kbps

Figure 6.4.7 – Display All Services – output view in csv file format.


C:\Documents and Settings\peric angela\Desktop\services export.xml - Microsoft Internet Explorer
Address C:\Documents and Settings\peric angela\Desktop\services export.xml
My Computer

```
<?xml version="1.0" encoding="UTF-8" ?>
- <export>
  - <CustomerServiceDTO>
      <ownerServiceNumber>A0246450200K1001</ownerServiceNumber>
      <serviceNumber>A0246450200K1001</serviceNumber>
      <serviceStatus>In Use</serviceStatus>
      <serviceSpeed>31 x 64 Kbps</serviceSpeed>
    </CustomerServiceDTO>
  - <CustomerServiceDTO>
      <ownerServiceNumber>A0267683611K1001</ownerServiceNumber>
      <serviceNumber>A0267683611K1001</serviceNumber>
      <serviceStatus>In Use</serviceStatus>
      <serviceSpeed>31 x 64 Kbps</serviceSpeed>
    </CustomerServiceDTO>
  - <CustomerServiceDTO>
      <ownerServiceNumber>A0269269900K1001</ownerServiceNumber>
      <serviceNumber>A0269269900K1001</serviceNumber>
      <serviceStatus>In Use</serviceStatus>
      <serviceSpeed>31 x 64 Kbps</serviceSpeed>
    </CustomerServiceDTO>
  - <CustomerServiceDTO>
      <ownerServiceNumber>A0282819300K1001</ownerServiceNumber>
      <serviceNumber>A0282819300K1001</serviceNumber>
      <serviceStatus>In Use</serviceStatus>
      <serviceSpeed>31 x 64 Kbps</serviceSpeed>
    </CustomerServiceDTO>
  - <CustomerServiceDTO>
      <ownerServiceNumber>A0283321700K1001</ownerServiceNumber>
      <serviceNumber>A0283321700K1001</serviceNumber>
      <serviceStatus>In Use</serviceStatus>
      <serviceSpeed>31 x 64 Kbps</serviceSpeed>
    </CustomerServiceDTO>
  - <CustomerServiceDTO>
      <ownerServiceNumber>A0284256000K1001</ownerServiceNumber>
```

Figure 6.4.8 - Display All Services – output view in xml file format.

TAS link function

When the TAS link function is clicked on, located in the service summary list, the following screen is opened in a new browser window.

It displays the service number (corresponding to the TAS link you clicked) which will be used as input data and the available testing functions that can be carried out. The actions (testing services) available will depend on the equipment type the service is connected to. As there are 4 testing services available, there are a maximum of 4 actions that can be displayed in the action column.

See the figure below for an example of a service number that has all testing functions displayed.

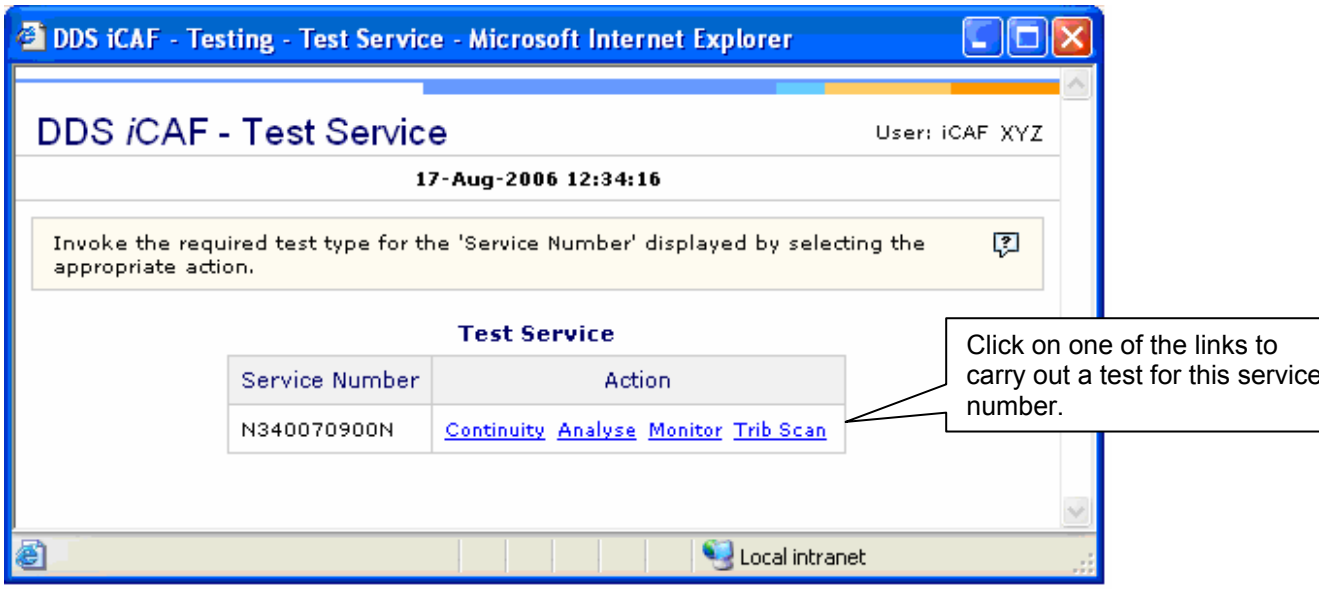

DDS iCAF - Testing - Test Service - Microsoft Internet Explorer
DDS iCAF - Test Service
User: iCAF XYZ
17-Aug-2006 12:34:16
Invoke the required test type for the 'Service Number' displayed by selecting the appropriate action.
Test Service
Service Number
Action
N340070900N
Continuity Analyse Monitor Trib Scan
Click on one of the links to carry out a test for this service number.
Local intranet

Figure 6.4.9 – A service number which has all testing services available.

In the next figure shown, there are only 2 test services available for the service number selected. This means the two tests missing are not suitable which saves you time by not having to look for information about what type of functions/equipment types the service number is connected to - the choices are pre-selected.

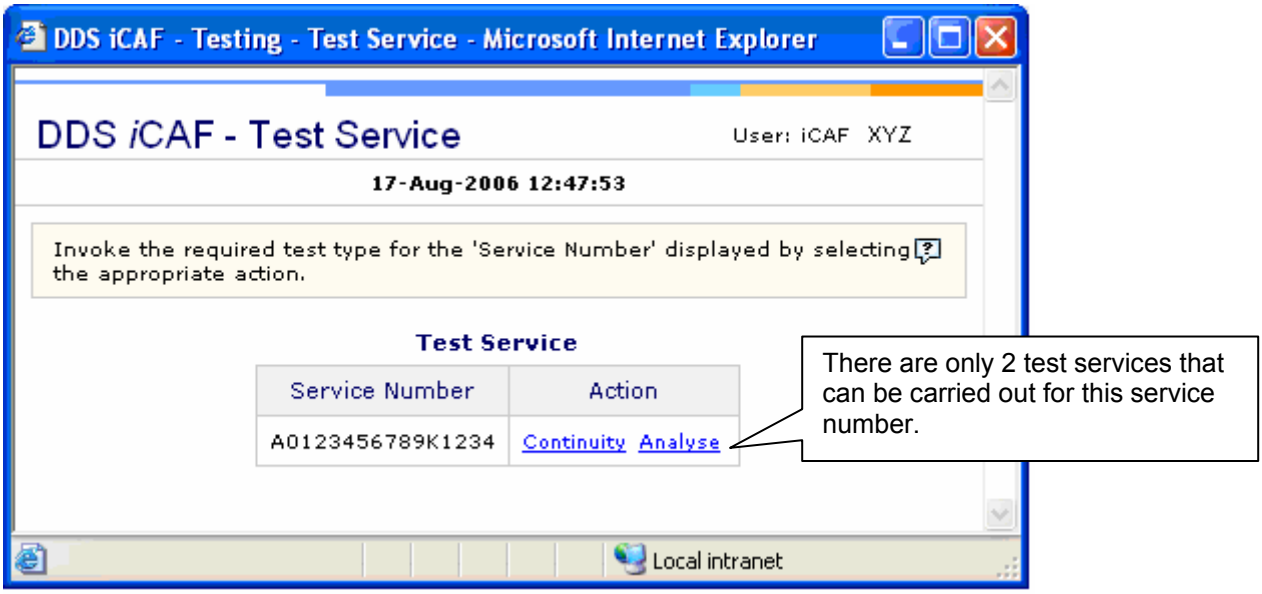

DDS iCAF - Testing - Test Service - Microsoft Internet Explorer
DDS iCAF - Test Service
User: iCAF XYZ
17-Aug-2006 12:47:53
Invoke the required test type for the 'Service Number' displayed by selecting the appropriate action.
Test Service
Service Number
Action
A0123456789K1234
Continuity Analyse
There are only 2 test services that can be carried out for this service number.
Local intranet

Figure 6.4.10 –Only 2 testing services available in TAS for this service number.

6.5. Display Service Details

Description

The 'Display Service Details' function displays a summary of all your services and is a gateway to other functions.

Usage

Enquiries - Display Service Details
Enter the Service Number to display and select 'Continue'.
Service Details
Service Number
Continue
Enter in any service number that belongs to you, the customer, to display its details.

Figure 6.5.1 - Display Service Details interface

The system will respond by displaying the details of the service number you entered.

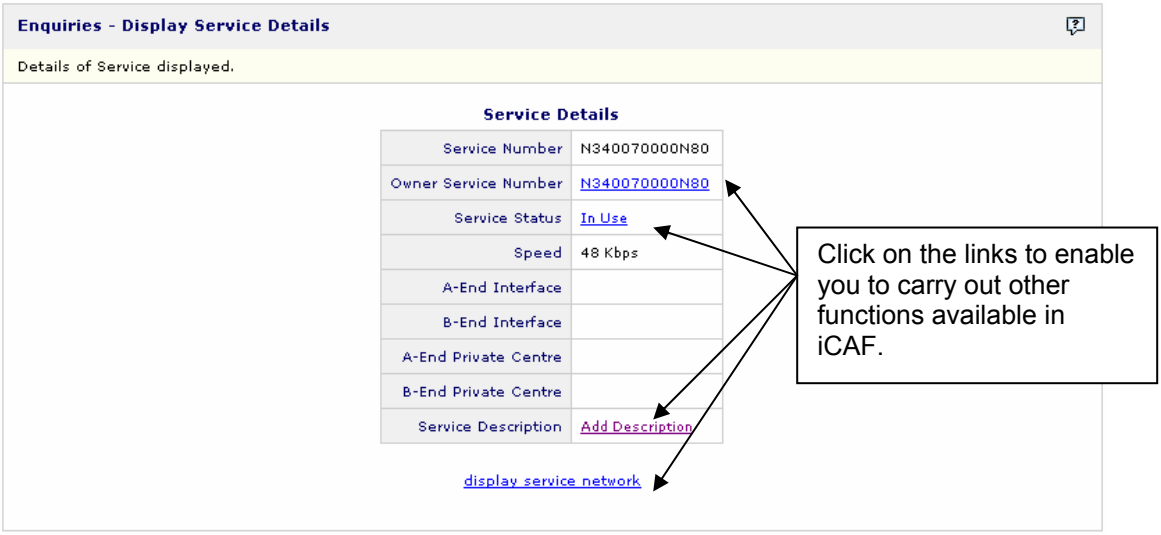

Enquiries - Display Service Details
Details of Service displayed.
Service Details
Service Number N340070000N80
Owner Service Number N340070000N80
Service Status In Use
Speed 48 Kbps
A-End Interface
B-End Interface
A-End Private Centre
B-End Private Centre
Service Description Add Description
display service network
Click on the links to enable you to carry out other functions available in iCAF.

Figure 6.5.2 – Service Details of the service number you entered.

6.6. Display All Multiplex Links

Description

The 'Display All Multiplex Links' function displays a summary of multiplex links that terminate in a Private Terminal Centre (PTC) owned by you.

Usage

Click on 'Display All Multiplex Links' located on the navigation bar on the left side of the screen or click on ‘Enquiries’ in the menu bar located at the top of the page to open up the main menu screen where the link 'Display All Multiplex Links' is displayed.

The Display All Multiplex Links function screen will open like the one shown below.

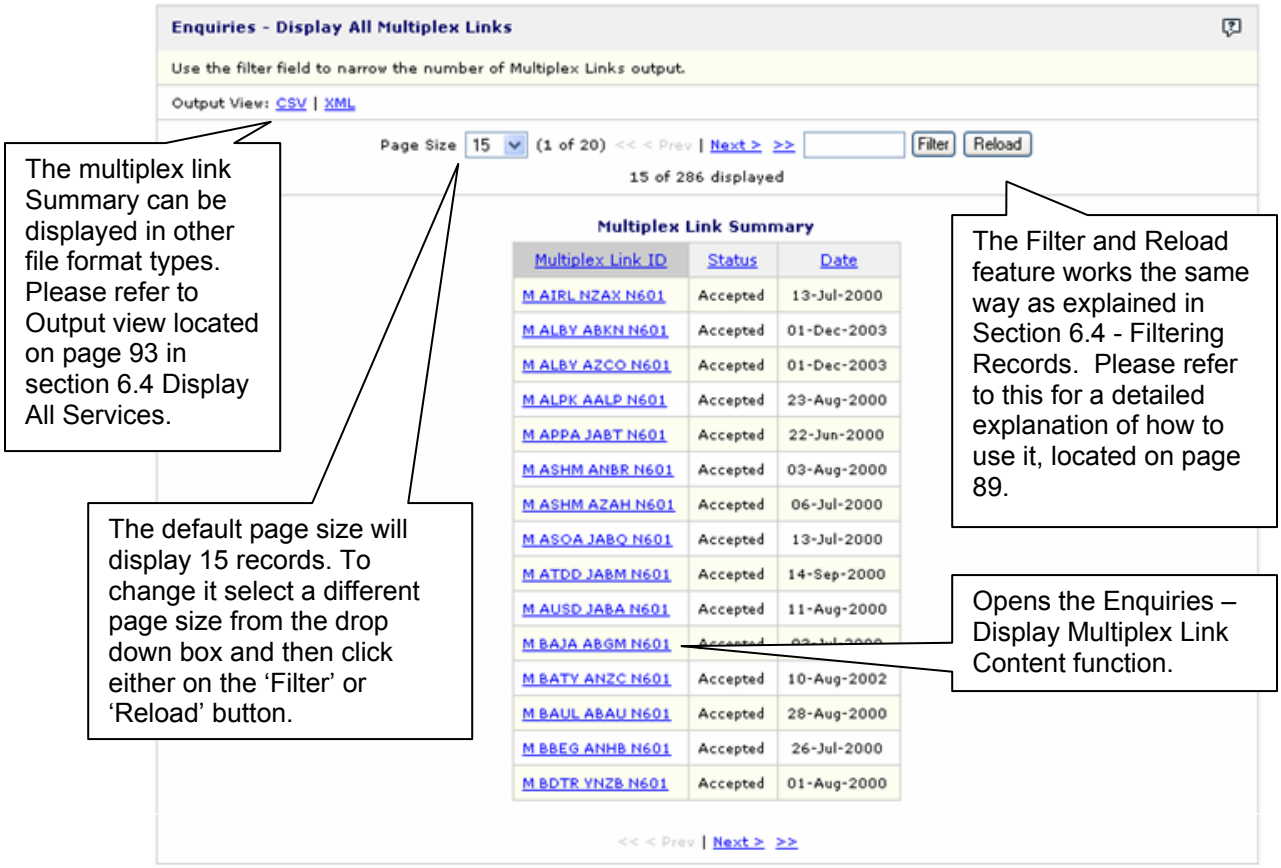

Enquiries - Display All Multiplex Links
Use the filter field to narrow the number of Multiplex Links output.
Output View: CSV | XML
Page Size 15 (1 of 20) << < Prev | Next > >>
Filter
Reload
15 of 286 displayed
Multiplex Link Summary
Multiplex Link ID
Status
Date
M AIRL NZAX N601 Accepted 13-Jul-2000
M ALBY ABKN N601 Accepted 01-Dec-2003
M ALBY AZCO N601 Accepted 01-Dec-2003
M ALPK AALP N601 Accepted 23-Aug-2000
M APPA JABT N601 Accepted 22-Jun-2000
M ASHM ANBR N601 Accepted 03-Aug-2000
M ASHM AZAH N601 Accepted 06-Jul-2000
M ASOA JABQ N601 Accepted 13-Jul-2000
M ATDD JABM N601 Accepted 14-Sep-2000
M AUSD JABA N601 Accepted 11-Aug-2000
M BAJA ABGM N601
M BATY ANZC N601 Accepted 10-Aug-2002
M BAUL ABAU N601 Accepted 28-Aug-2000
M BBEG ANHB N601 Accepted 26-Jul-2000
M BDTR YNZB N601 Accepted 01-Aug-2000
<< < Prev | Next > >>
The multiplex link Summary can be displayed in other file format types. Please refer to Output view located on page 93 in section 6.4 Display All Services.
The default page size will display 15 records. To change it select a different page size from the drop down box and then click either on the ‘Filter’ or ‘Reload’ button.
The Filter and Reload feature works the same way as explained in Section 6.4 - Filtering Records. Please refer to this for a detailed explanation of how to use it, located on page 89.
Opens the Enquiries – Display Multiplex Link Content function.

Figure 6.6.1 – Display All Multiplex links function screen.

The Multiplex Link Summary contains the multiplex link ID, its status and the date that the last status change was made.

6.7. Display Multiplex Link Content

Description

This function allows you to display all data links and N*64K services on a multiplex link. For information to be displayed the ‘B’ end of the link must terminate in a Private Terminal Centre belonging to you. In any other case no information is provided.

Usage

Click on 'Display Multiplex Link Content' located on the navigation bar on the left side of the screen or click on ‘Enquiries’ in the menu bar located at the top of the page to open up the main menu screen where the link 'Display Multiplex Link Content' is displayed.

To display the content of a multiplex link, enter the required Multiplex Link ID into the text field and click on the ‘Continue’ button.

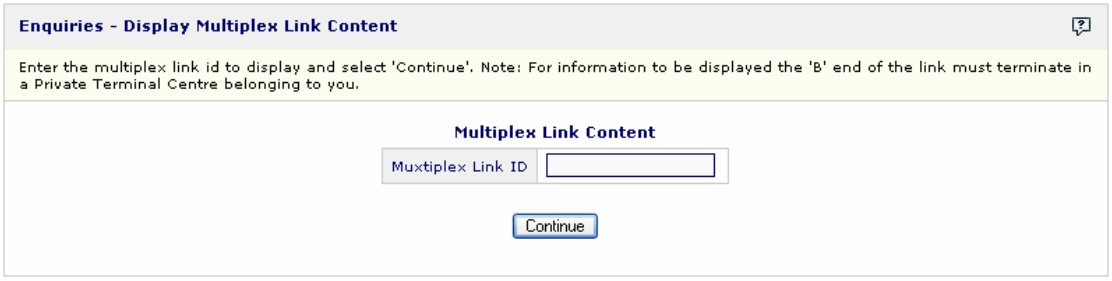

Enquiries - Display Multiplex Link Content
Enter the multiplex link id to display and select 'Continue'. Note: For information to be displayed the 'B' end of the link must terminate in a Private Terminal Centre belonging to you.
Multiplex Link Content
Muxtiplex Link ID
Continue

Figure 6.7.1 – Display Multiplex Link Content

The multiplex link contents will display as shown below.

Enquiries - Display Multiplex Link Content
Link contents can be filtered by resource level (Active is the default). Select resource level required and select 'Continue'.
This is a direct link to other functions. If a service number is displayed, you can display service details by clicking this link. If a data link is displayed, it will display data link content.
If the timeslot is utilised by a service, the link status and the X54 Code fields will be blank.
The Suspend or Reinstate function can be accessed from here.
Multiplex Link Details
Mux Link ID
M APPA JABT N601
Status
Accepted - 22-Jun-2000
Resource Level
Active
Continue
Multiplex Link Contents
Tim
Utilisation
Link Status
Service Status
Status Date
X54 Code
Required Date
Speed
PAC
0
1 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
2 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
3 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
4 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
5 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
7 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
8 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
9 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
10 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
11 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
12 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
13 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
14 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
15 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
16 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
17 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
18 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
19 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
20 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
21 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
22 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
23 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
24 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
25 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
26 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
27 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
28 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
29 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
30 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active
31 Y216091867N In Use 04-Dec-2003 30-Aug-2003 31 x 64 Kbps Active

Figure 6.7.2 – Enquiries – Display Multiplex Link Content

The next figure shows timeslots being utilised by data links.

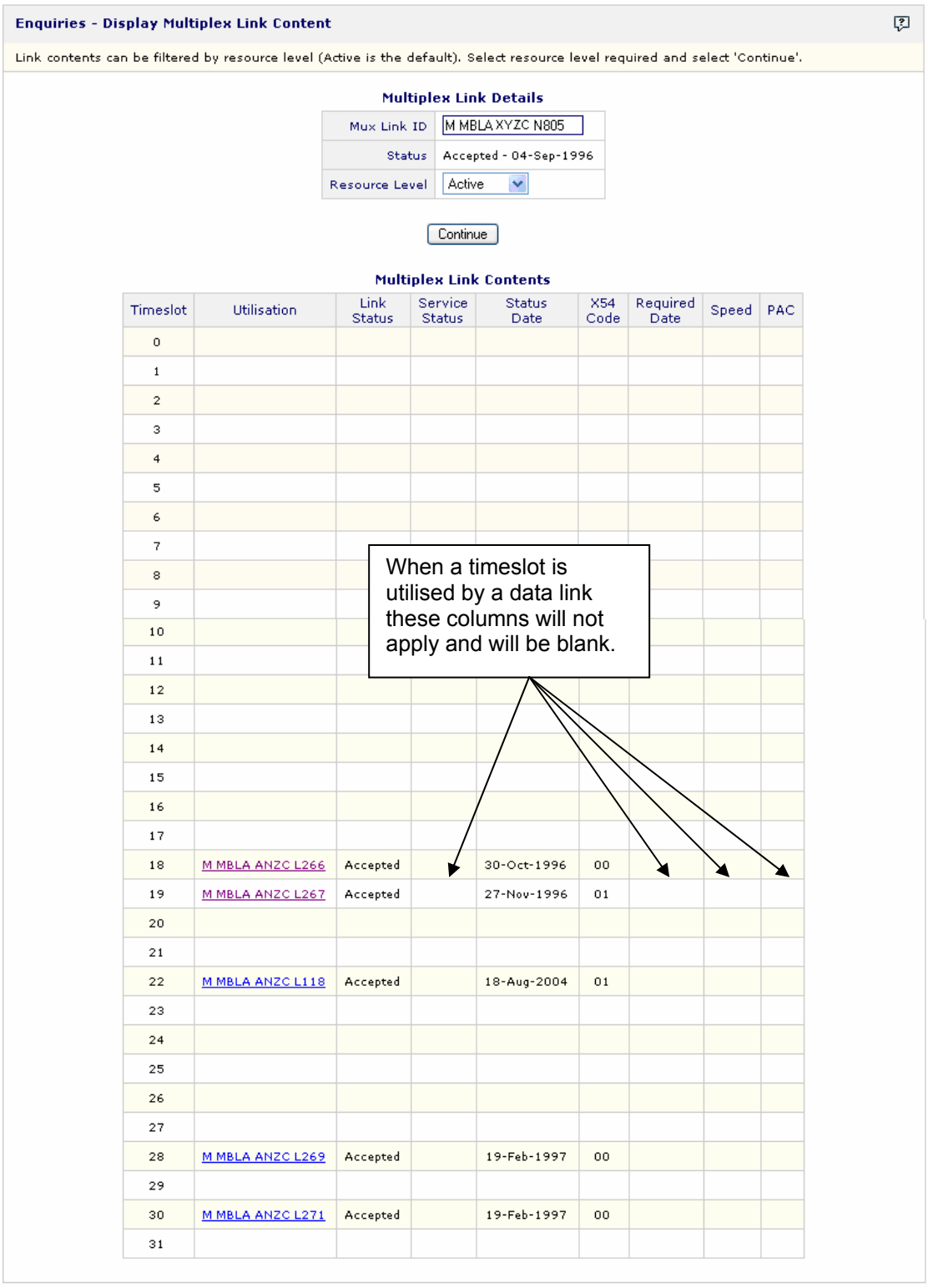


Figure 6.7.3 – An example of timeslots being utilised by data links.

Field Descriptions

Multiplex Link Details

Status
The status of the multiplex link and the date it achieved that status.

Resource Level

Possible Data Link status values are:

Future	Planned to be in service in the next Telstra year
Planned	Planned to be in service in this Telstra year
Installed	Being made ready for use
Commissioned	In final testing
Rejected	Failed final testing
Accepted	In service

Multiplex Link Contents

Sort Order
Displays timeslots from 0 through 31 or channels from 0 through 31.

Utilisation
If the channel is being used, then either a Data Link ID, for e.g. M ADLX PRTX L101 or a Service Number will be displayed.

If the channel is not being used, then this field may be blank and available for use or reserved for N64K services.

Link Status
If a Data Link is carried in the channel then its status is displayed.

Possible Data Link status values are:

Future	Planned to be in service in the next financial year
Planned	Planned to be in service in this financial year
Installed	Being made ready for use
Commissioned	In final testing
Rejected	Failed final testing

Accepted In service

Service Status

If a service is being carried in the channel then its status is displayed.

Possible Service status values are:

In Use

Switched

Suspended

Status Date

The date the status was achieved either for the link status or the service status depending on which one is displayed in the timeslot.

X.54 Code

This column is only used for Data Links and contains the X.54 code of the Link.

Resource Level

This column is used for all but Data Links. A resource level can be either Pending, Active or Cancelled. The Active resource level is the default value.

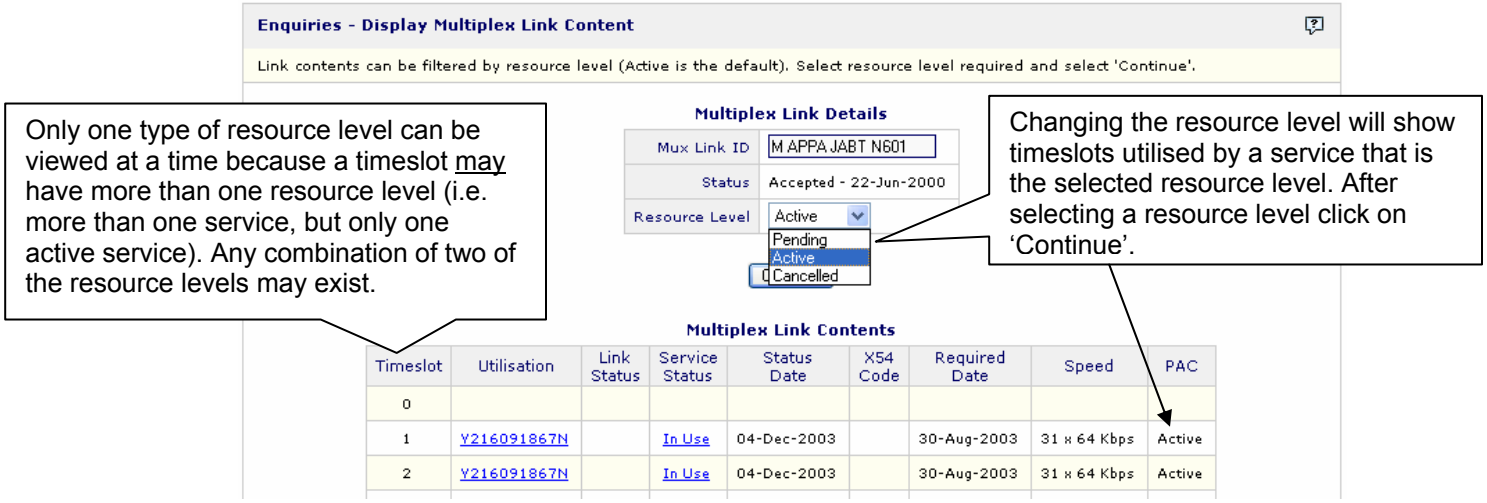


Figure 6.7.4 – Resource Level drop down box can change the information displayed in the link contents table.

Required Date

This column is used for services only and contains the Customer required date.

Speed

This column is used for services only and contains the speed of the service.

Error Messages

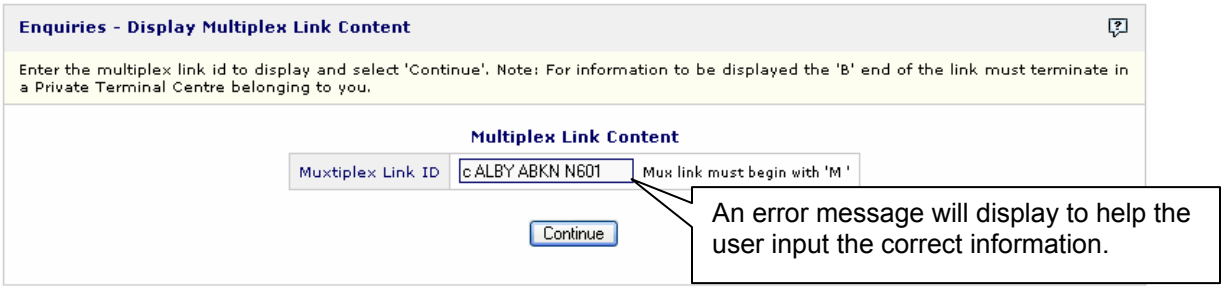

Enquiries - Display Multiplex Link Content
Enter the multiplex link id to display and select 'Continue'. Note: For information to be displayed the 'B' end of the link must terminate in a Private Terminal Centre belonging to you.
Multiplex Link Content
Muxtiplex Link ID
c ALBY ABKN N601
Mux link must begin with 'M '
Continue
An error message will display to help the user input the correct information.

Figure 6.7.5 – Display Multiplex Link Content – User input – error message.

6.8. Display All Data Links

Description

The 'Display All Data Links' function displays a summary of data links that terminate in a Private Terminal Centre (PTC) owned by you.

Usage

Click on 'Display All Data Links' located on the navigation bar on the left side of the screen or click on ‘Enquiries’ in the menu bar located at the top of the page to open up the main menu screen where the link 'Display All Data Links' is displayed.

The Display All Data Links function screen will open like the one shown below.

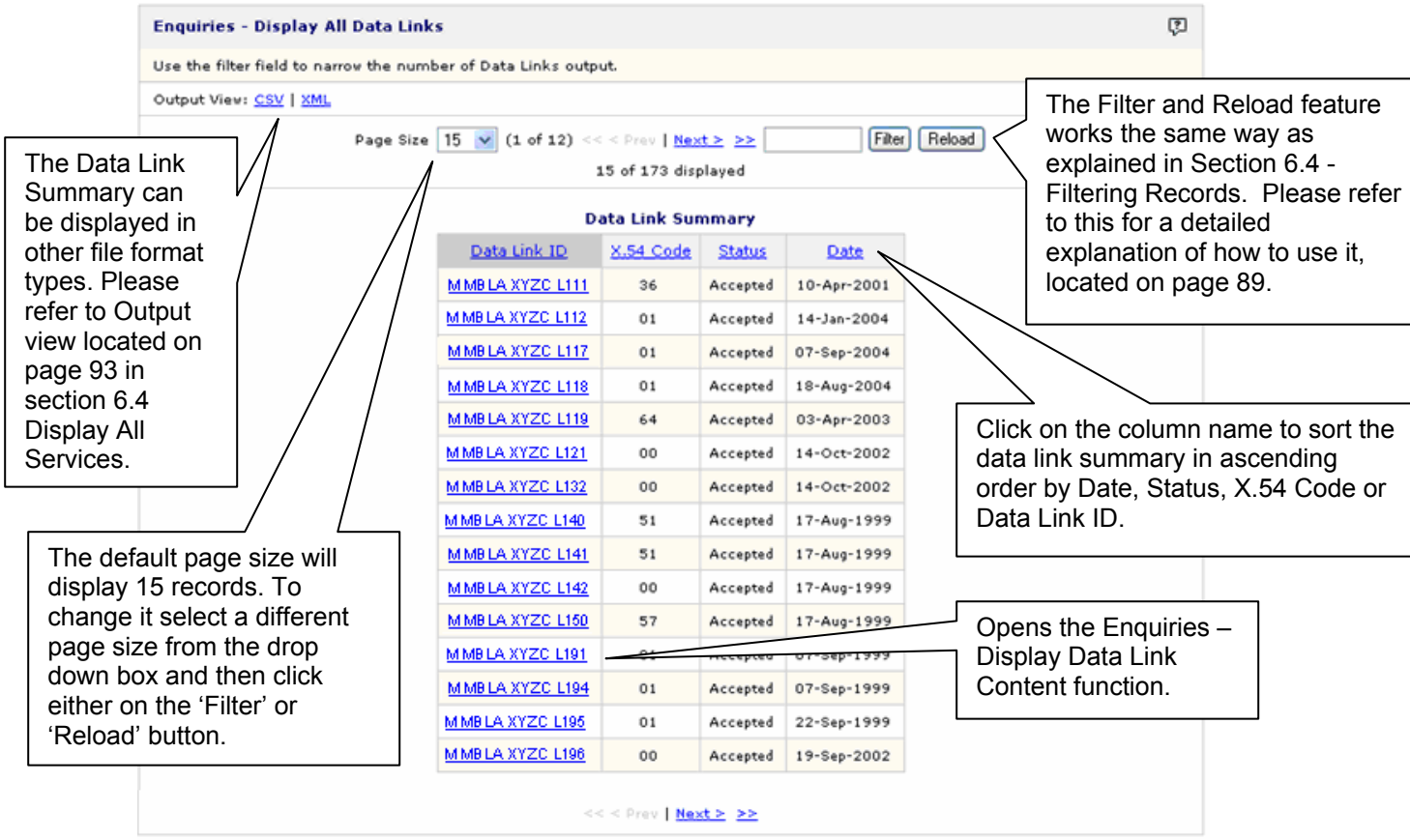

Enquiries - Display All Data Links
Use the filter field to narrow the number of Data Links output.
Output View: CSV | XML
Page Size 15 (1 of 12) << < Prev | Next > >>
Filter
Reload
15 of 173 displayed
Data Link Summary
Data Link ID
X.54 Code
Status
Date
MMBLAXYZCL111 36 Accepted 10-Apr-2001
MMBLAXYZCL112 01 Accepted 14-Jan-2004
MMBLAXYZCL117 01 Accepted 07-Sep-2004
MMBLAXYZCL118 01 Accepted 18-Aug-2004
MMBLAXYZCL119 64 Accepted 03-Apr-2003
MMBLAXYZCL121 00 Accepted 14-Oct-2002
MMBLAXYZCL132 00 Accepted 14-Oct-2002
MMBLAXYZCL140 51 Accepted 17-Aug-1999
MMBLAXYZCL141 51 Accepted 17-Aug-1999
MMBLAXYZCL142 00 Accepted 17-Aug-1999
MMBLAXYZCL150 57 Accepted 17-Aug-1999
MMBLAXYZCL191
MMBLAXYZCL194 01 Accepted 07-Sep-1999
MMBLAXYZCL195 01 Accepted 22-Sep-1999
MMBLAXYZCL196 00 Accepted 19-Sep-2002
<< < Prev | Next > >>
The Data Link Summary can be displayed in other file format types. Please refer to Output view located on page 93 in section 6.4 Display All Services.
The default page size will display 15 records. To change it select a different page size from the drop down box and then click either on the ‘Filter’ or ‘Reload’ button.
The Filter and Reload feature works the same way as explained in Section 6.4 - Filtering Records. Please refer to this for a detailed explanation of how to use it, located on page 89.
Click on the column name to sort the data link summary in ascending order by Date, Status, X.54 Code or Data Link ID.
Opens the Enquiries – Display Data Link Content function.

Figure 6.8.1 – Enquiries – Display All Data Link function screen.

The Data Link Summary contains the Data Link ID, the X.54 Code, its status and the date that the last status change was made.

6.9. Display Data Link Content

Description

The function allows you to display all services on your data link.

Usage

Click on 'Display Data Link Content' located on the navigation bar on the left side of the screen or click on 'Enquiries' in the menu bar located at the top of the page to open up the main menu screen where the link 'Display Data Link Content' is displayed.

The Display Data Link Content function screen will require you to enter in a data link ID. Below is an example. Click on the 'Continue' button to display the data link's contents.

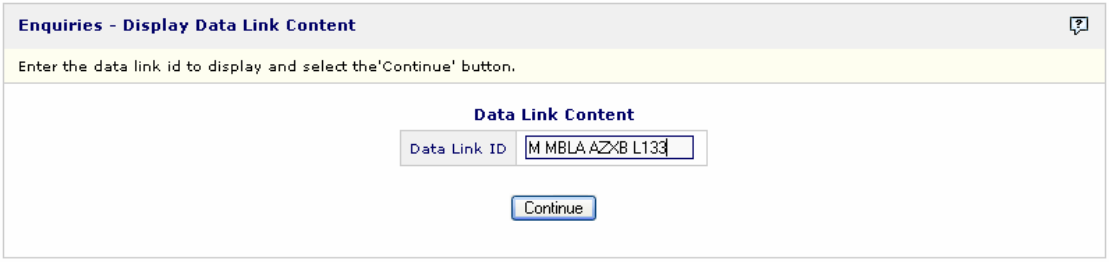

Enquiries - Display Data Link Content
Enter the data link id to display and select the'Continue' button.
Data Link Content
Data Link ID
M MBLA AZXB L133
Continue

Figure 6.9.1 – Enquiries – Display Data Link Content.

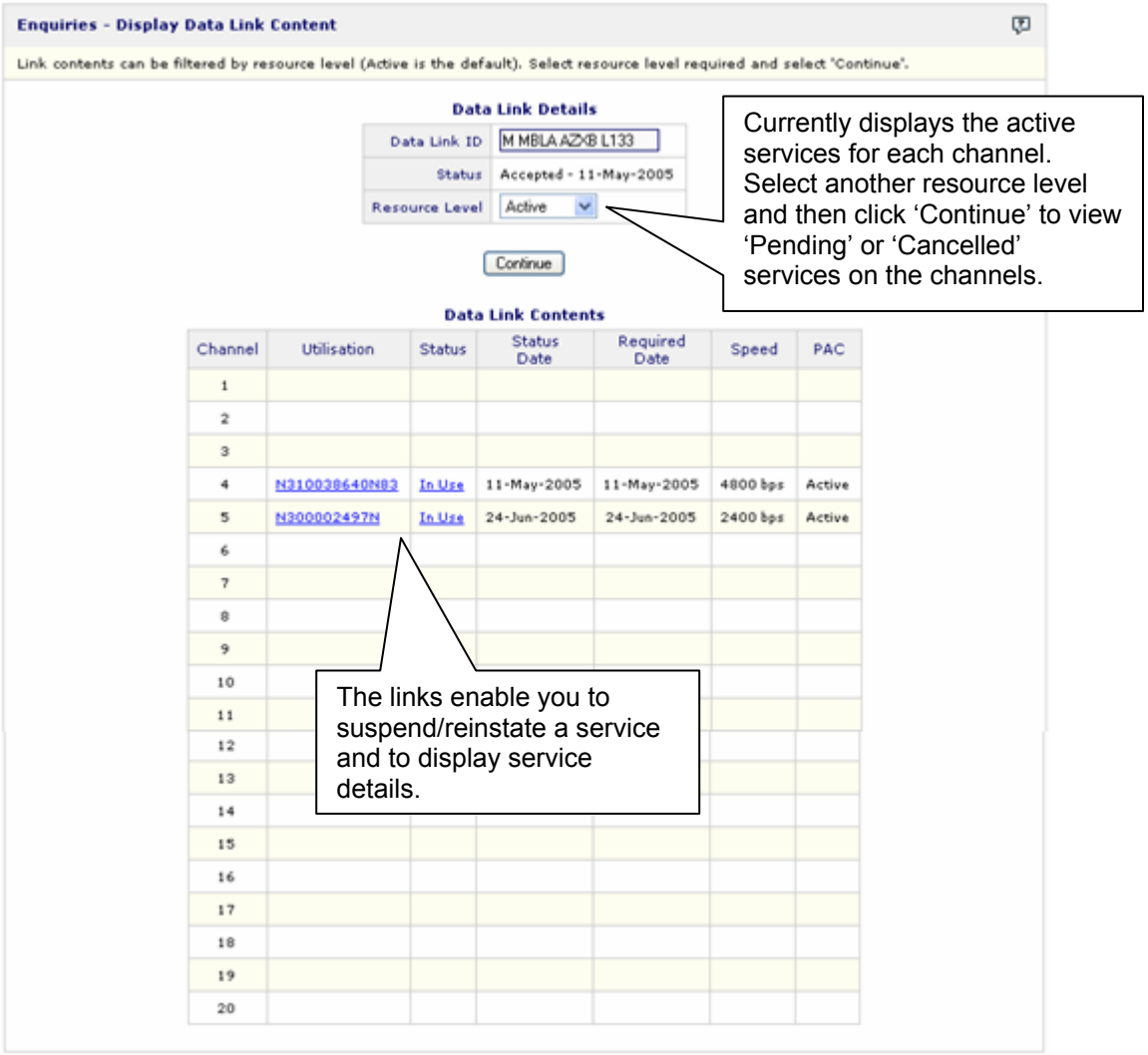


Figure 6.9.2 - Enquiries – Display Data Link Content.

Field Descriptions

Output fields

Data Link Details

Data Link ID
The LRD code of the Data Link that was entered is displayed.

Status
The status of the data link and the date it achieved that status.

Possible Data Link status values are:

Future	Planned to be in service in the next Telstra year
Planned	Planned to be in service in this Telstra year

Installed	Being made ready for use
Commissioned	In final testing
Rejected	Failed final testing
Accepted	In service

Data Link Contents

Channel
Channel number from 1 through 20 of the data link.

Utilization
Will contain a service number if the channel is assigned to a service.

Status
Current status of the service.

Possible Service status values are:

In Use

Switched

Suspended

Status Date
The date the status was achieved.

Resource Level / PAC
A resource level can be either Pending, Active or Cancelled.The Active resource level is the default value. A channel on a data link can have more than one service assigned to it but only one active service at a time. So any 2 combinations of the three resource levels can occur on a channel. That is why only one type of resource level can be viewed at a time. Please see Figure 6.7.4 which shows a detailed explanation about resource levels for multiplex links which also applies to data links.

Required Date
The Customer Required date.

Speed
The speed of the service.

7. Alarms

7.1. Overview

Alarm Monitoring functions.

Alarm History

The 'Alarm History Log' function allows you to review your alarm history. Alarms for the past year are preserved by the system. You may select historical alarms by service number or month. Extra filtering can be performed within the paging/filter area. Note that current alarms will not appear in alarm history.

Alarm Monitor

The 'Alarm Monitor' function opens a new browser window that displays services currently in alarm.

7.2. Alarm History

Description

The 'Alarm History Log' function allows you to review your alarm history. Alarms for the past year are preserved by the system. You may select historical alarms by service number or month. Extra filtering can be performed within the paging/filter area. Note that current alarms will not appear in alarm history.

Usage

Click on 'Alarm History Log' located on the navigation bar on the left side of the screen or click on ‘Alarms’ in the menu bar located at the top of the page to open up the main menu screen where the link 'Alarm History Log' is displayed.

The alarm history log will be displayed in a list which is sorted by onset time in ascending order.

By default the current months alarm history will be displayed and page size equal to 15 records.

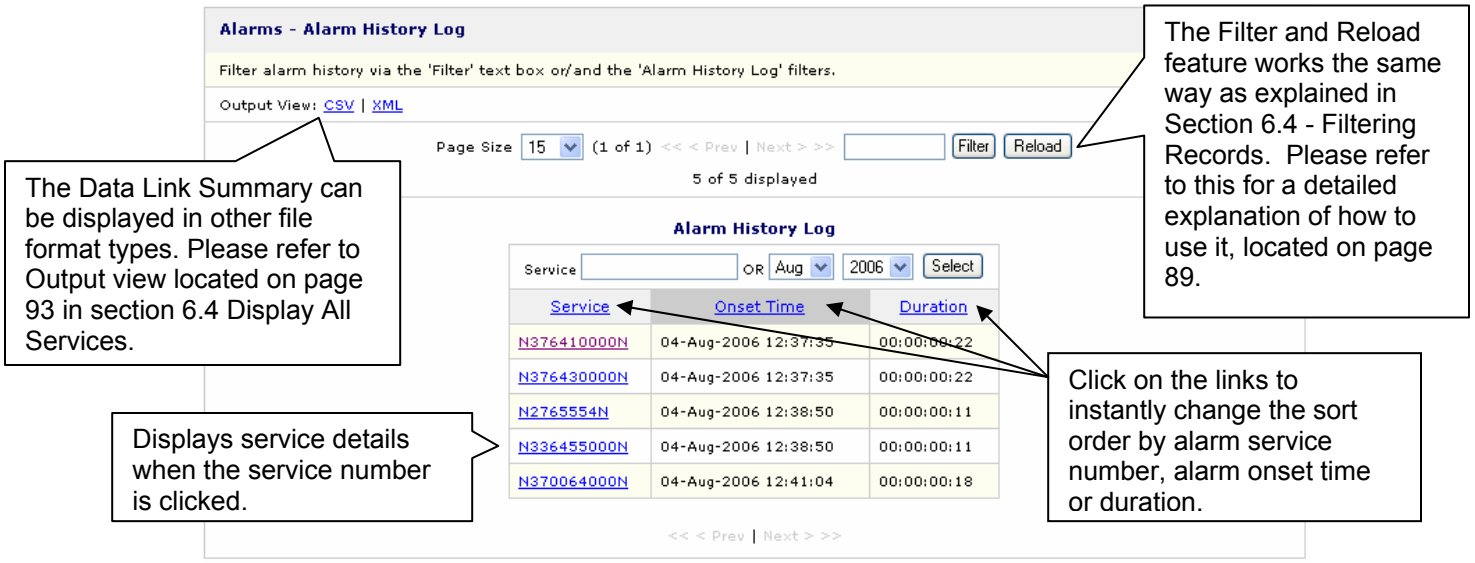

Alarms - Alarm History Log
Filter alarm history via the 'Filter' text box or/and the 'Alarm History Log' filters.
Output View: CSV | XML
Page Size 15 (1 of 1) << < Prev | Next > >>
Filter
Reload
5 of 5 displayed
Alarm History Log
Service
OR Aug 2006 Select
Service
Onset Time
Duration
N376410000N 04-Aug-2006 12:37:35 00:00:00:22
N376430000N 04-Aug-2006 12:37:35 00:00:00:22
N2765554N 04-Aug-2006 12:38:50 00:00:00:11
N336455000N 04-Aug-2006 12:38:50 00:00:00:11
N370064000N 04-Aug-2006 12:41:04 00:00:00:18
<< < Prev | Next > >>
The Data Link Summary can be displayed in other file format types. Please refer to Output view located on page 93 in section 6.4 Display All Services.
The Filter and Reload feature works the same way as explained in Section 6.4 - Filtering Records. Please refer to this for a detailed explanation of how to use it, located on page 89.
Displays service details when the service number is clicked.
Click on the links to instantly change the sort order by alarm service number, alarm onset time or duration.

Figure 7.2.1 – Alarms – Alarm History Log screen with default settings.

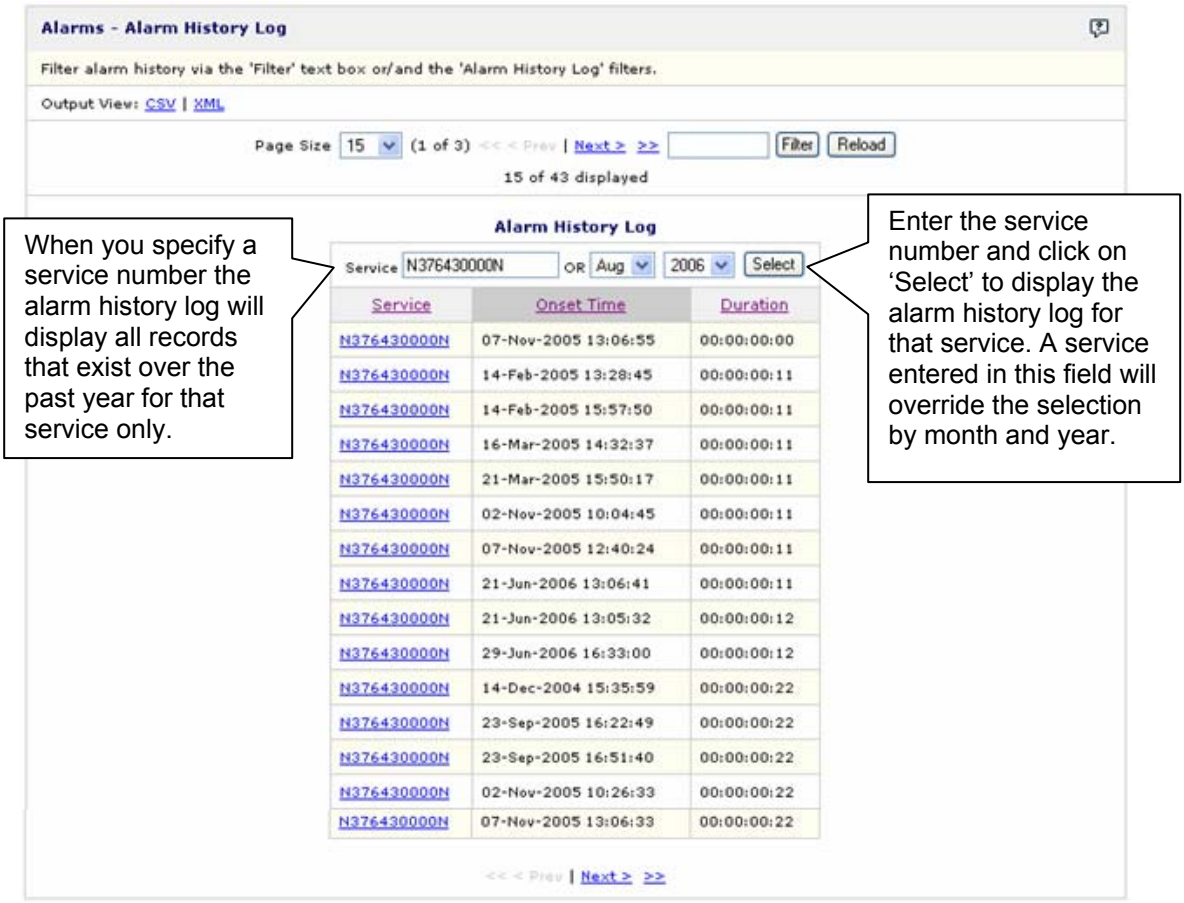

Alarms - Alarm History Log
Filter alarm history via the 'Filter' text box or/and the 'Alarm History Log' filters.
Output View: CSV | XML
Page Size 15 (1 of 3) << < Prev | Next > >>
Filter
Reload
15 of 43 displayed
Alarm History Log
Service N376430000N OR Aug 2006 Select
Service
Onset Time
Duration
N376430000N 07-Nov-2005 13:06:55 00:00:00:00
N376430000N 14-Feb-2005 13:28:45 00:00:00:11
N376430000N 14-Feb-2005 15:57:50 00:00:00:11
N376430000N 16-Mar-2005 14:32:37 00:00:00:11
N376430000N 21-Mar-2005 15:50:17 00:00:00:11
N376430000N 02-Nov-2005 10:04:45 00:00:00:11
N376430000N 07-Nov-2005 12:40:24 00:00:00:11
N376430000N 21-Jun-2006 13:06:41 00:00:00:11
N376430000N 21-Jun-2006 13:05:32 00:00:00:12
N376430000N 29-Jun-2006 16:33:00 00:00:00:12
N376430000N 14-Dec-2004 15:35:59 00:00:00:22
N376430000N 23-Sep-2005 16:22:49 00:00:00:22
N376430000N 23-Sep-2005 16:51:40 00:00:00:22
N376430000N 02-Nov-2005 10:26:33 00:00:00:22
N376430000N 07-Nov-2005 13:06:33 00:00:00:22
<< < Prev | Next > >>
When you specify a service number the alarm history log will display all records that exist over the past year for that service only.
Enter the service number and click on 'Select' to display the alarm history log for that service. A service entered in this field will override the selection by month and year.

Figure 7.2.2 – All records in the alarm history log for a particular service are shown when you specify a service number.

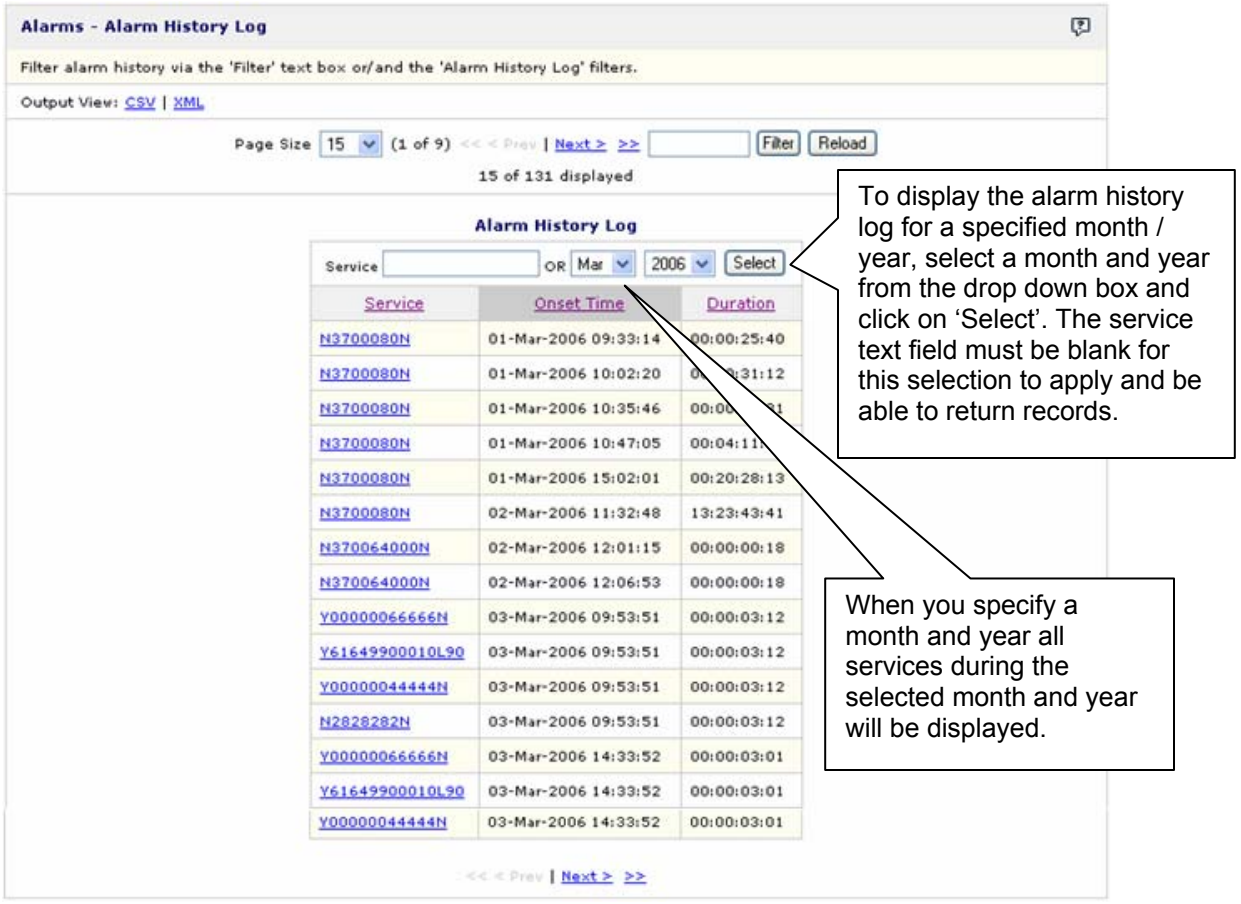

Alarms - Alarm History Log
Filter alarm history via the 'Filter' text box or/and the 'Alarm History Log' filters.
Output View: CSV | XML
Page Size 15 (1 of 9) << < Prev | Next > >>
Filter
Reload
15 of 131 displayed
Alarm History Log
Service
OR Mar 2006 Select
Service
Onset Time
Duration
N3700080N 01-Mar-2006 09:33:14 00:00:25:40
N3700080N 01-Mar-2006 10:02:20
N3700080N 01-Mar-2006 10:35:46
N3700080N 01-Mar-2006 10:47:05
N3700080N 01-Mar-2006 15:02:01 00:20:28:13
N3700080N 02-Mar-2006 11:32:48 13:23:43:41
N370064000N 02-Mar-2006 12:01:15 00:00:00:18
N370064000N 02-Mar-2006 12:06:53 00:00:00:18
Y00000066666N 03-Mar-2006 09:53:51 00:00:03:12
Y61649900010L90 03-Mar-2006 09:53:51 00:00:03:12
Y00000044444N 03-Mar-2006 09:53:51 00:00:03:12
N2828282N 03-Mar-2006 09:53:51 00:00:03:12
Y00000066666N 03-Mar-2006 14:33:52 00:00:03:01
Y61649900010L90 03-Mar-2006 14:33:52 00:00:03:01
Y00000044444N 03-Mar-2006 14:33:52 00:00:03:01
<< < Prev | Next > >>
To display the alarm history log for a specified month / year, select a month and year from the drop down box and click on 'Select'. The service text field must be blank for this selection to apply and be able to return records.
When you specify a month and year all services during the selected month and year will be displayed.

Figure 7.2.3 – Alarm history log for all services for the month of March 2006.

Field Descriptions

Alarm History Log

Service
The service number of the alarm.

Onset Time
The date and time the alarm was set in the DDN. Note that time is Eastern Standard Time.

Duration
The duration of the alarm in hours, minutes and seconds.

7.3. Alarm Monitor

Description

The 'Alarm Monitor' function opens a new browser window that displays services currently in alarm.

Usage

Click on 'Alarm Monitor' located on the navigation bar on the left side of the screen or click on 'Alarms' in the menu bar located at the top of the page to open up the main menu screen where the link 'Alarm Monitor' is displayed.

The alarm monitor function will open a new browser window. The screen will look like the one shown below.

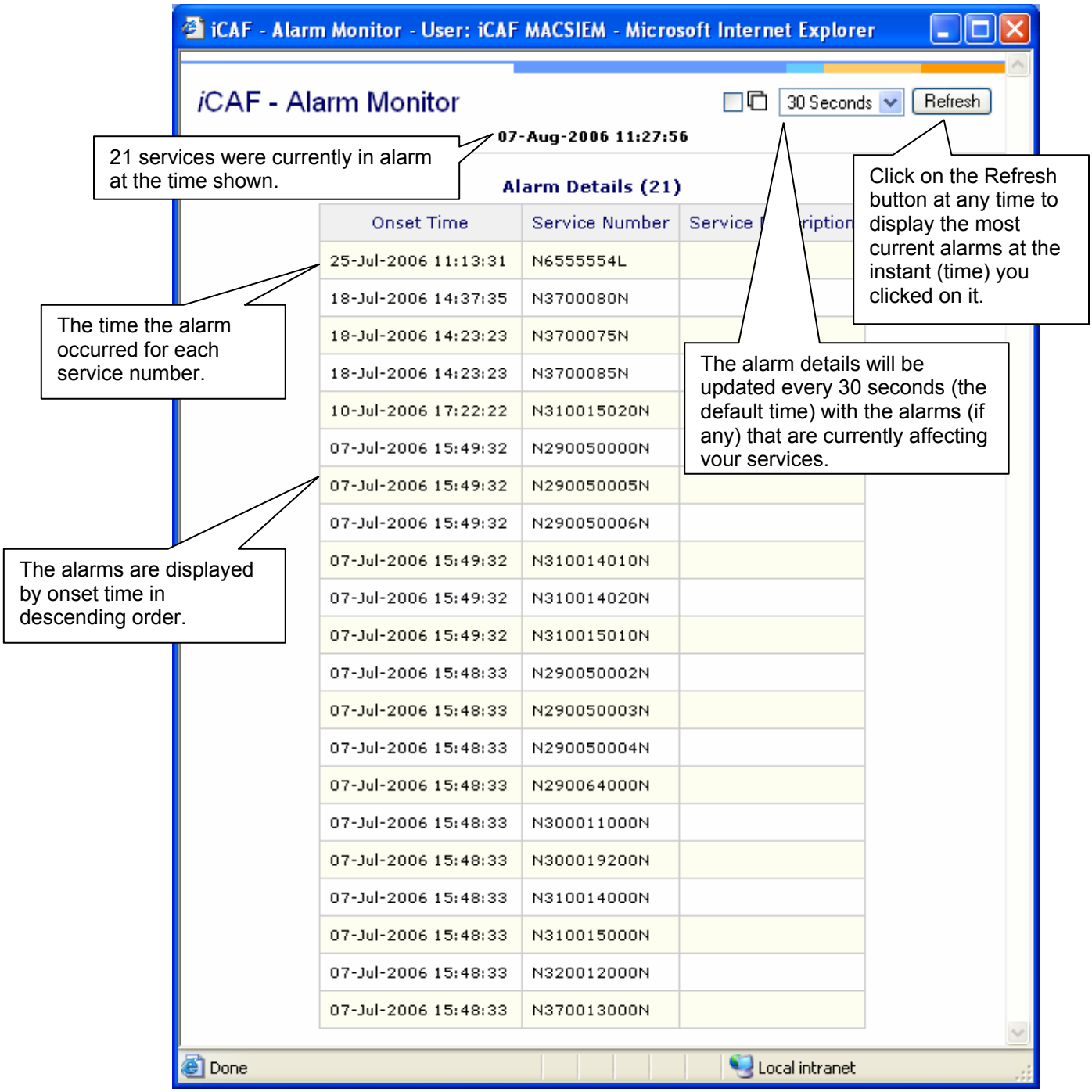

iCAF - Alarm Monitor - User: iCAF MACSIEM - Microsoft Internet Explorer
iCAF - Alarm Monitor
30 Seconds
Refresh
07-Aug-2006 11:27:56
21 services were currently in alarm at the time shown.
Alarm Details (21)
Onset Time
Service Number
25-Jul-2006 11:13:31 N6555554L
18-Jul-2006 14:37:35 N3700080N
18-Jul-2006 14:23:23 N3700075N
18-Jul-2006 14:23:23 N3700085N
10-Jul-2006 17:22:22 N310015020N
07-Jul-2006 15:49:32 N290050000N
07-Jul-2006 15:49:32 N290050005N
07-Jul-2006 15:49:32 N290050006N
07-Jul-2006 15:49:32 N310014010N
07-Jul-2006 15:49:32 N310014020N
07-Jul-2006 15:49:32 N310015010N
07-Jul-2006 15:48:33 N290050002N
07-Jul-2006 15:48:33 N290050003N
07-Jul-2006 15:48:33 N290050004N
07-Jul-2006 15:48:33 N290064000N
07-Jul-2006 15:48:33 N300011000N
07-Jul-2006 15:48:33 N300019200N
07-Jul-2006 15:48:33 N310014000N
07-Jul-2006 15:48:33 N310015000N
07-Jul-2006 15:48:33 N320012000N
07-Jul-2006 15:48:33 N370013000N
Done
Local intranet
The time the alarm occurred for each service number.
The alarms are displayed by onset time in descending order.
The alarm details will be updated every 30 seconds (the default time) with the alarms (if any) that are currently affecting your services.
Click on the Refresh button at any time to display the most current alarms at the instant (time) you clicked on it.

Figure 7.3.1- iCAF- Alarm Monitor function.

Other functions in iCAF can be carried out whilst this browser window is open, that is, whilst this function is being used.

However, updates to a service's description that is displayed in the alarm monitor function will not be shown here when the screen is refreshed as it only shows information that was current at the onset time of the service which is in the past.

Alarm Monitor Window Content

Onset Time

The date and time the alarm occurred in the DDN. Note time is Eastern Standard Time.

Service Number

The service number that is currently in alarm.

Service Description

If the service has a description, it will be displayed in this field.

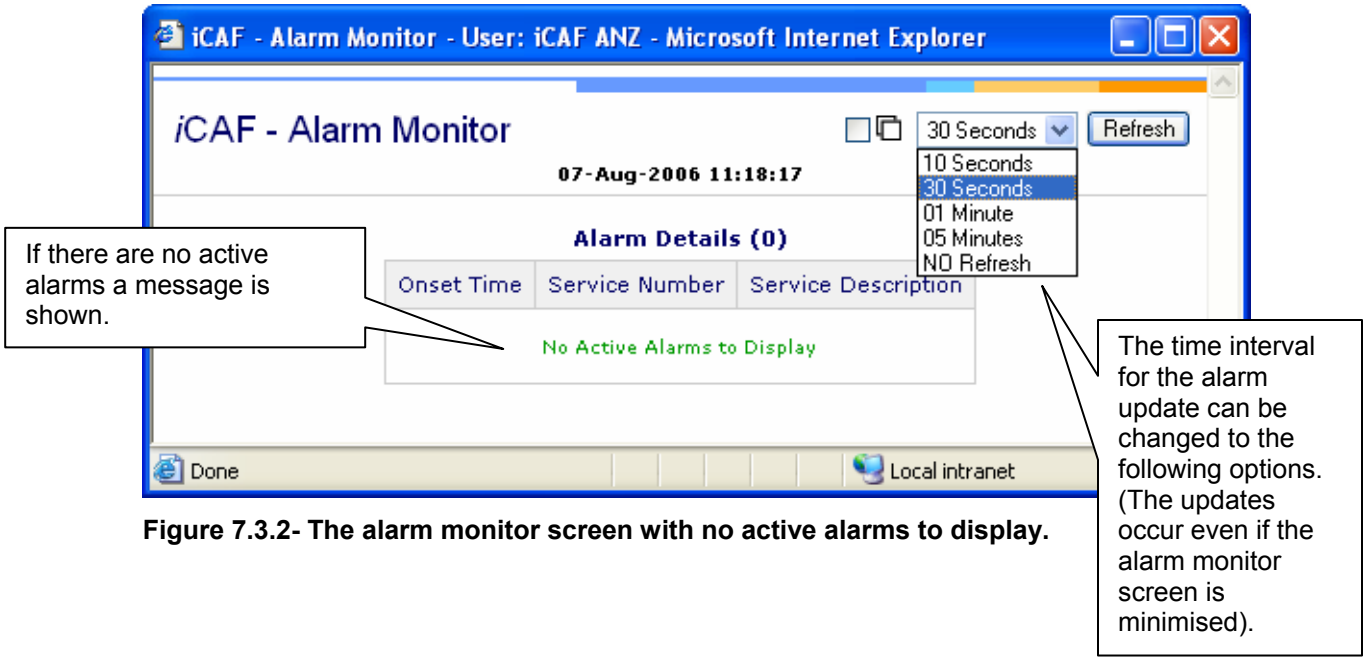

iCAF - Alarm Monitor - User: iCAF ANZ - Microsoft Internet Explorer
iCAF - Alarm Monitor
30 Seconds
Refresh
10 Seconds
30 Seconds
01 Minute
05 Minutes
NO Refresh
07-Aug-2006 11:18:17
Alarm Details (0)
Onset Time
Service Number
Service Description
No Active Alarms to Display
Done
Local intranet
If there are no active alarms a message is shown.
The time interval for the alarm update can be changed to the following options. (The updates occur even if the alarm monitor screen is minimised).

Figure 7.3.2- The alarm monitor screen with no active alarms to display.

8. Admin

8.1. Overview

Admin functions.

Audit Log

The 'Audit Log' function displays a history of transactions. The transaction types logged are: 'change of service status', 'group redirection changes' and 'start of TAS test'

Version

The 'Version' function displays version information for the system.

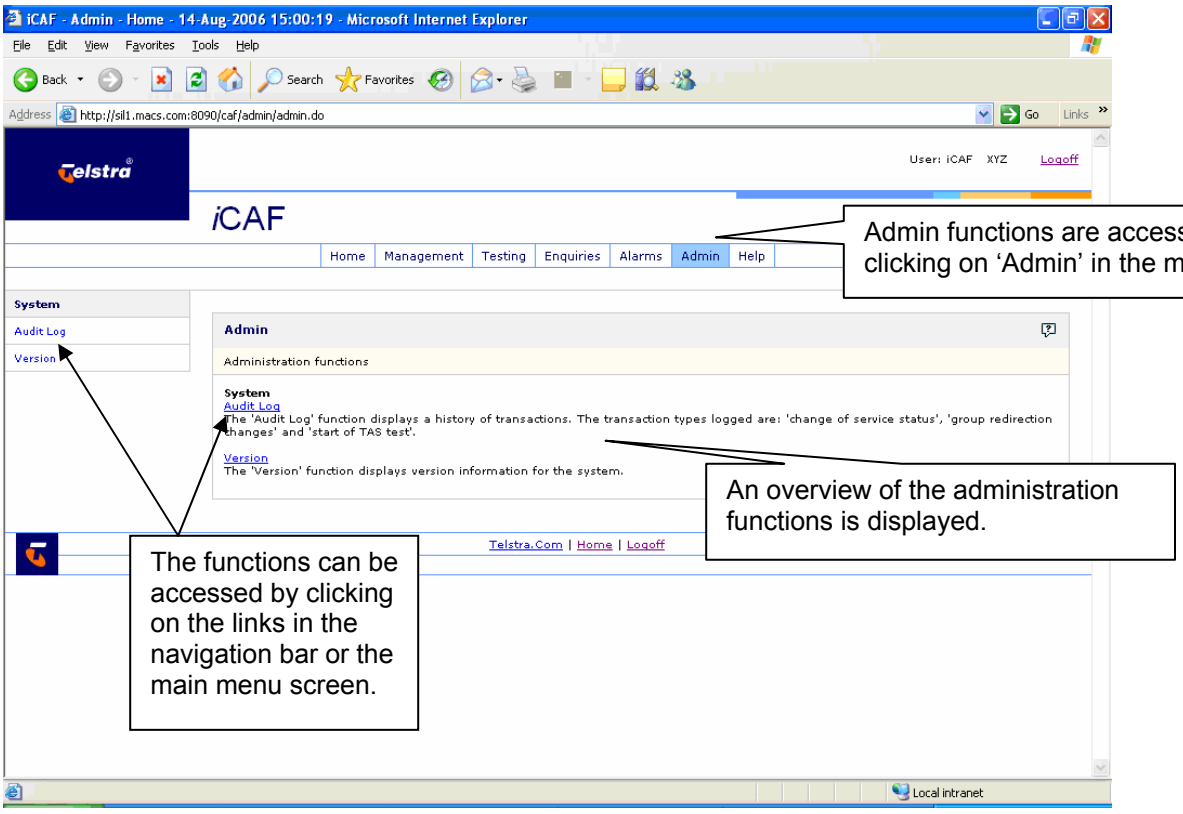

iCAF - Admin - Home - 14-Aug-2006 15:00:19 - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://sil1.macs.com:8090/caf/admin/admin.do
Go Links
Telstra
User: iCAF XYZ Logoff
iCAF
Home Management Testing Enquiries Alarms Admin Help
System
Audit Log
Version
Admin
Administration functions
System
Audit Log
The 'Audit Log' function displays a history of transactions. The transaction types logged are: 'change of service status', 'group redirection changes' and 'start of TAS test'.
Version
The 'Version' function displays version information for the system.
Telstra.Com | Home | Logoff
Local intranet
Admin functions are accessed by clicking on 'Admin' in the menu bar.
An overview of the administration functions is displayed.
The functions can be accessed by clicking on the links in the navigation bar or the main menu screen.

Figure 8.1.1 – Admin Main Menu screen.

8.2. Audit Log

Description

The 'Audit Log' function displays a history of transactions. Some examples of the transaction types logged are: 'change of service status', 'group redirection changes' and 'start of TAS test'

Usage

Click on ‘Audit Log’ to display a list (summary) of the actions that have been carried out by the user. The list includes a description of the function that was carried out, the input data entered, the user ID and the date of the activity. The screen will display like the one shown below.

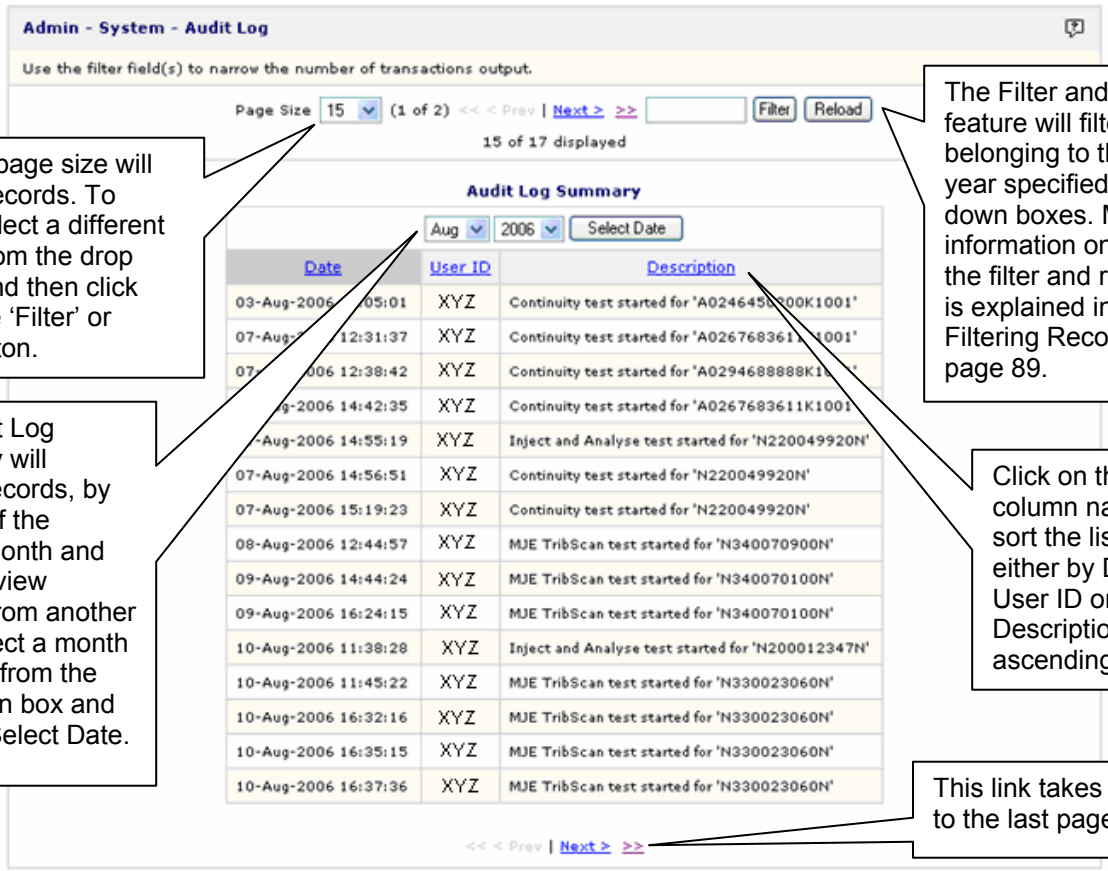

Admin - System - Audit Log
Use the filter field(s) to narrow the number of transactions output.
Page Size 15 (1 of 2) << < Prev | Next > >>
Filter
Reload
15 of 17 displayed
Audit Log Summary
Aug 2006 Select Date
Date
User ID
Description
03-Aug-2006 05:01 XYZ Continuity test started for 'A024645800K1001'
07-Aug- 12:31:37 XYZ Continuity test started for 'A026768361 1001'
07- 006 12:38:42 XYZ Continuity test started for 'A0294688888K1
-2006 14:42:35 XYZ Continuity test started for 'A0267683611K1001'
-Aug-2006 14:55:19 XYZ Inject and Analyse test started for 'N220049920N'
07-Aug-2006 14:56:51 XYZ Continuity test started for 'N220049920N'
07-Aug-2006 15:19:23 XYZ Continuity test started for 'N220049920N'
08-Aug-2006 12:44:57 XYZ MJE TribScan test started for 'N340070900N'
09-Aug-2006 14:44:24 XYZ MJE TribScan test started for 'N340070100N'
09-Aug-2006 16:24:15 XYZ MJE TribScan test started for 'N340070100N'
10-Aug-2006 11:38:28 XYZ Inject and Analyse test started for 'N200012347N'
10-Aug-2006 11:45:22 XYZ MJE TribScan test started for 'N330023060N'
10-Aug-2006 16:32:16 XYZ MJE TribScan test started for 'N330023060N'
10-Aug-2006 16:35:15 XYZ MJE TribScan test started for 'N330023060N'
10-Aug-2006 16:37:36 XYZ MJE TribScan test started for 'N330023060N'
<< < Prev | Next > >>
The default page size will display 15 records. To change it select a different page size from the drop down box and then click either on the ‘Filter’ or ‘Reload’ button.
The Filter and Reload feature will filter records belonging to the month and year specified in the drop down boxes. More information on how to use the filter and reload feature is explained in Section 6.4 - Filtering Records located on page 89.
The Audit Log Summary will display records, by default, of the current month and year. To view records from another date, select a month and year from the drop down box and click on Select Date.
Click on the column name to sort the list either by Date, User ID or Description in ascending order.
This link takes you to the last page.

Figure 8.2.1- Admin – System – Audit Log – shows history of user actions.

8.3. Version

Description

The 'Version' function displays version information for the system.

Usage

Click on ‘Version’ to display the version details. The screen will display as shown below.

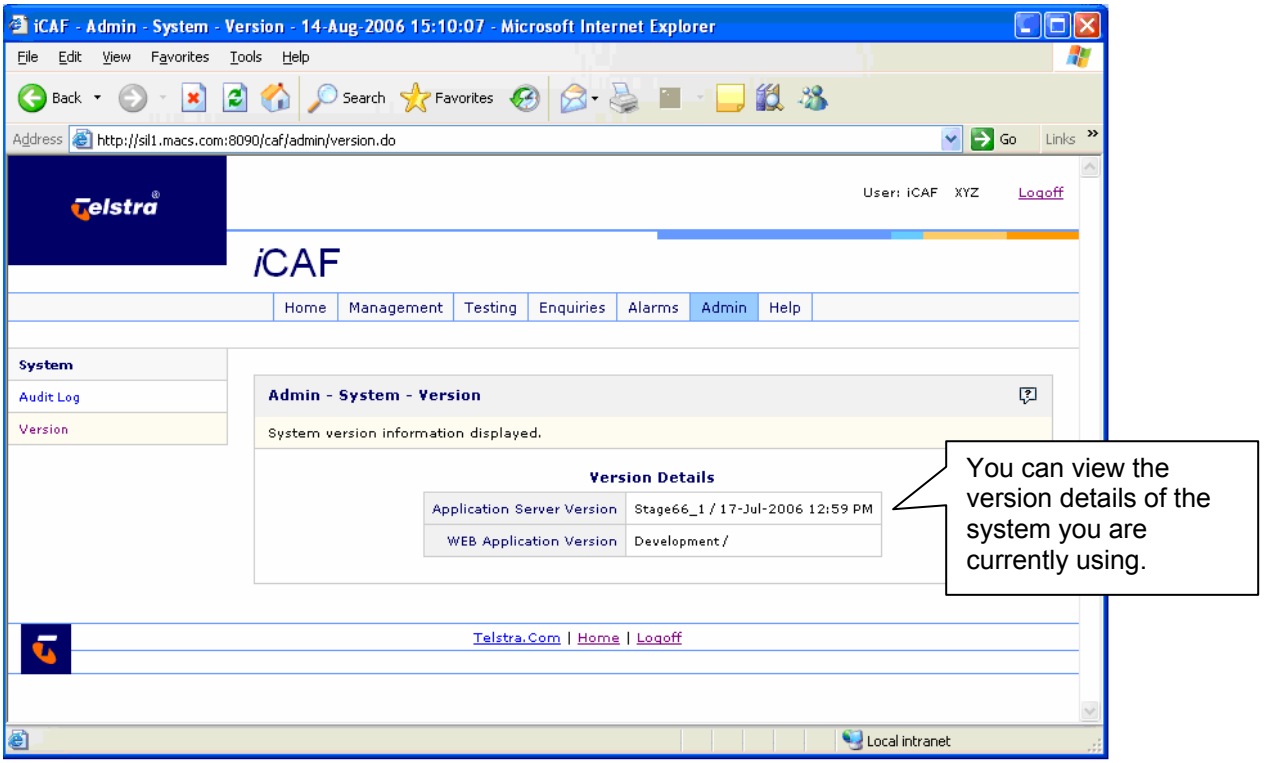

iCAF - Admin - System - Version - 14-Aug-2006 15:10:07 - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://sil1.macs.com:8090/caf/admin/version.do
Go Links
User: iCAF XYZ Logoff
iCAF
Home Management Testing Enquiries Alarms Admin Help
System
Audit Log
Version
Admin - System - Version
System version information displayed.
Version Details
Application Server Version
Stage66_1 / 17-Jul-2006 12:59 PM
WEB Application Version
Development /
You can view the version details of the system you are currently using.
Telstra.Com | Home | Logoff
Local intranet

Figure 8.3.1 – Admin – Version function shows version details.

Version details include the following information:

Application Server Version
The current application server version.

WEB Application Version
The current web application version.

9. Online Help

9.1. Overview

The help function gives a detailed description of each function available in the system such as its purpose, instructions on how to use the function and the meaning of the input and output values.

Shown below is the Online Help home page. This page is opened up in a new browser when 'Help' is clicked on the main menu bar located at the top of the screen.

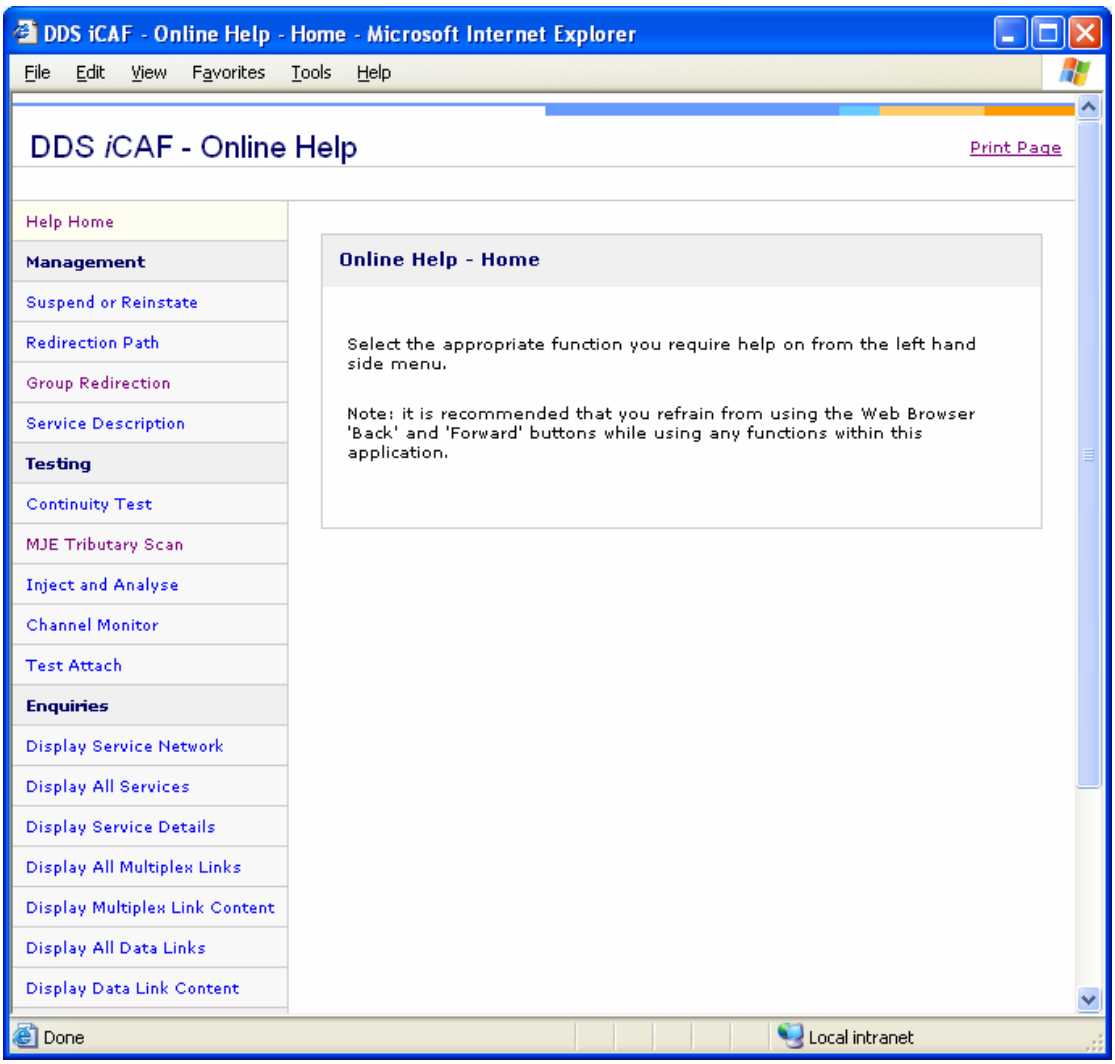

DDS iCAF - Online Help - Home - Microsoft Internet Explorer
File Edit View Favorites Tools Help
DDS iCAF - Online Help
Print Page
Help Home
Management
Suspend or Reinstate
Redirection Path
Group Redirection
Service Description
Testing
Continuity Test
MJE Tributary Scan
Inject and Analyse
Channel Monitor
Test Attach
Enquiries
Display Service Network
Display All Services
Display Service Details
Display All Multiplex Links
Display Multiplex Link Content
Display All Data Links
Display Data Link Content
Online Help - Home
Select the appropriate function you require help on from the left hand side menu.
Note: it is recommended that you refrain from using the Web Browser 'Back' and 'Forward' buttons while using any functions within this application.
Done
Local intranet

Figure 9.1.1 – Online Help Home page.

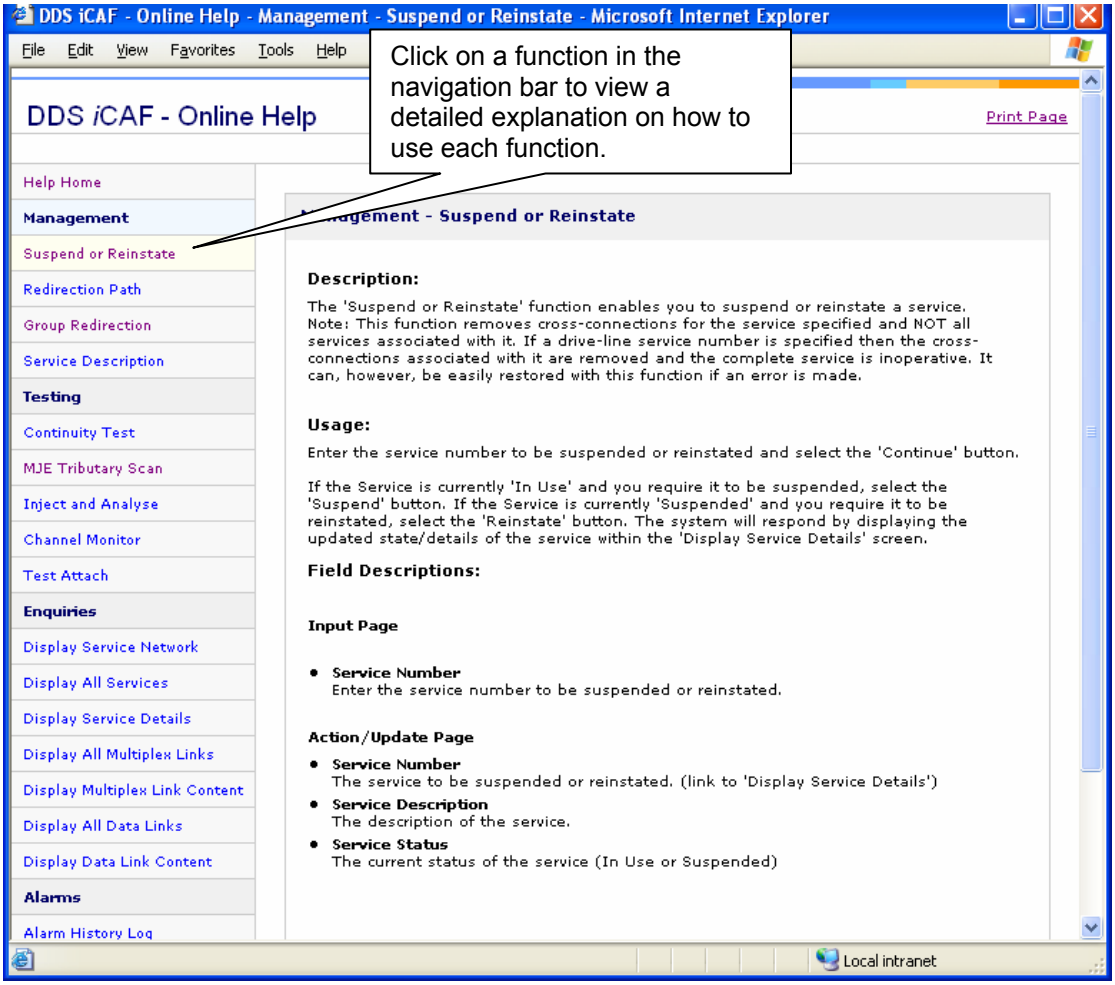

DDS iCAF - Online Help - Management - Suspend or Reinstate - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Click on a function in the navigation bar to view a detailed explanation on how to use each function.
DDS iCAF - Online Help
Print Page
Help Home
Management
Suspend or Reinstate
Redirection Path
Group Redirection
Service Description
Testing
Continuity Test
MJE Tributary Scan
Inject and Analyse
Channel Monitor
Test Attach
Enquiries
Display Service Network
Display All Services
Display Service Details
Display All Multiplex Links
Display Multiplex Link Content
Display All Data Links
Display Data Link Content
Alarms
Alarm History Log
Suspend or Reinstate
Description:
The 'Suspend or Reinstate' function enables you to suspend or reinstate a service.
Note: This function removes cross-connections for the service specified and NOT all services associated with it. If a drive-line service number is specified then the cross-connections associated with it are removed and the complete service is inoperative. It can, however, be easily restored with this function if an error is made.
Usage:
Enter the service number to be suspended or reinstated and select the 'Continue' button.
If the Service is currently 'In Use' and you require it to be suspended, select the 'Suspend' button. If the Service is currently 'Suspended' and you require it to be reinstated, select the 'Reinstate' button. The system will respond by displaying the updated state/details of the service within the 'Display Service Details' screen.
Field Descriptions:
Input Page
Service Number
Enter the service number to be suspended or reinstated.
Action/Update Page
Service Number
The service to be suspended or reinstated. (link to 'Display Service Details')
Service Description
The description of the service.
Service Status
The current status of the service (In Use or Suspended)
Local intranet

Figure 9.1.2 – Online Help function shows an explanation of the Suspend or Reinstate function.

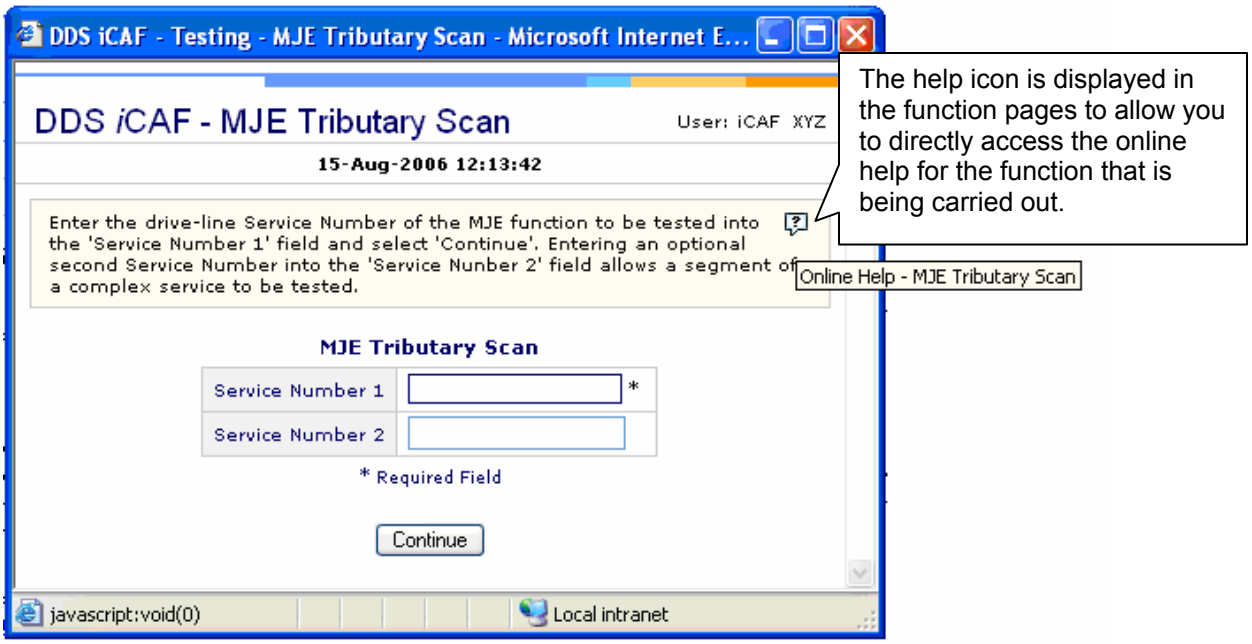

DDS iCAF - Testing - MJE Tributary Scan - Microsoft Internet E...
DDS iCAF - MJE Tributary Scan
User: iCAF XYZ
15-Aug-2006 12:13:42
Enter the drive-line Service Number of the MJE function to be tested into the 'Service Number 1' field and select 'Continue'. Entering an optional second Service Number into the 'Service Nunber 2' field allows a segment of a complex service to be tested.
Online Help - MJE Tributary Scan
MJE Tributary Scan
Service Number 1
Service Number 2
* Required Field
Continue
javascript:void(0)
Local intranet
The help icon is displayed in the function pages to allow you to directly access the online help for the function that is being carried out.

Figure 9.1.3 – Online Help can be accessed while using a function.

The next figure shows the online help page (opened in a new browser window) when the help icon is clicked.

The MJE Tributary Scan online help is displayed as that is the currently used function.

iCAF - Online Help - Testing - MJE Tributary Scan - Microsoft Internet Explorer
File Edit View Favorites Tools Help
iCAF - Online Help
Print Page
Help Home
Management
Suspend or Reinstate
Redirection Path
Group Redirection
Service Description
Testing
Continuity Test
MJE Tributary Scan
Inject and Analyse
Channel Monitor
Test Attach
Enquiries
Display Service Network
Display All Services
Display Service Details
Display All Multiplex Links
Display Multiplex Link Content
Display All Data Links
Display Data Link Content
Testing - MJE Tributary Scan
Description:
The 'MJE Tributary Scan' function can assist in identifying a faulty tributary after MJE contention has been detected or is suspected. The tributary scan function, when started, will through connect each tributary one at a time whilst, at the same time, monitoring the main channel. If a faulty tributary is detected you will be notified.
Usage:
Enter the drive-line Service Number of the MJE function to be tested into the 'Service Number 1' field and select 'Continue'. Entering an optional second Service Number into the 'Service Nunber 2' field allows a segment of a complex service to be tested.
To start a test select the 'Start' button. A running test can be teminated by selecting 'Stop'. Test results are displayed during and on completion of the test. Restart a test by selecting the end to test and select 'Restart'.
Field Descriptions:
Test Input Page:
Service Number 1
Enter the service number to be tested.
Service Number 2
Enter the service number to be tested. (if applicable)
Testing Page:
Service Details
During a test equipment lights flash orange to indicate a test is running. On completion of the test the lights will either be solid 'Green' to indicate a PASS or solid 'Red' to indicate a FAIL. A solid connection line between the equipment indicates connectivity, while a dashed line indicates no connection possible.
Done
Local intranet

Figure 9.1.4 – Online Help displays the function that is in use when the help icon is clicked.

10. Glossary

Facility

A redirection facility consists of a number of TDCC based redirection functions (RDIR-T's) all of which are owned by active services belonging to you.

Drive line

The link to a redirection function which is then linked to one or more tributaries.

Configuration

The valid range for the unique number is from 1 to a maximum of 127.

A configuration may be created at any time for an existing facility

Activate

Switch all tributaries for a given configuration.

Available Functions

Redirection functions that are available to become part of a facility ie they are not part of an existing facility.

Switching

Switching occurs when a redirection function's drive-line is cross-connected to one of it's tributaries.

Tributary

There may be from 2 to 8 tributaries for a redirection function. Only one tributary may be active (switched) at any one time.

Redirection Function

Consists of a drive-line service and from 2 to 8 tributary services.